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-PHEVIB00-
6 # Phenylalanine_aromatic group / toluene
1.39425895 0.00000067 0.00000000 1.0 # CG
0.69713224 1.20746431 0.00000000 1.0 # CD1
-0.69712835 1.20746137 0.00000000 1.0 # CE1
-1.39426188 -0.00000070 0.00000000 1.0 # CZ
-0.69713089 -1.20746326 0.00000000 1.0 # CE2
0.69712932 -1.20746240 0.00000000 1.0 # CD2
&TRANSITION 1->...
30 37310.0 # 268.0 nm, (r2r1) 30 = 1Lb_v1 state
0.00001159 0.23600000 0.00000000 1.0 # electr. mom.
0.00000000 0.00000000 0.1066111229E-05 # magnet. mom.
0.69712898 -1.20746181 0.00000000 -96.86030786
1.39425828 0.00000067 0.00000000 -0.00222740
0.69713190 1.20746372 0.00000000 96.85548927
-0.69712801 1.20746079 0.00000000 96.85909911
-1.39426121 -0.00000070 0.00000000 -0.01043734
-0.69713055 -1.20746268 0.00000000 -96.84177463
0.64421128 -1.20746181 0.00000000 93.27933698
0.75004668 -1.20746181 0.00000000 85.24548231
0.69712898 -1.26037951 0.00000000 -37.94013694
0.69712898 -1.15454411 0.00000000 -43.76980229
1.34134058 0.00000067 0.00000000 0.00067741
1.44717598 0.00000067 0.00000000 0.00072899
1.39425828 -0.05291703 0.00000000 -4.83905616
1.39425828 0.05291837 0.00000000 4.83985668
0.64421420 1.20746372 0.00000000 -93.27575739
0.75004960 1.20746372 0.00000000 -85.24281091
0.69713190 1.15454602 0.00000000 43.76924654
0.69713190 1.26038142 0.00000000 37.93937250
-0.75004571 1.20746079 0.00000000 -85.24580920
-0.64421031 1.20746079 0.00000000 -93.27965303
-0.69712801 1.15454309 0.00000000 43.77081240
-0.69712801 1.26037849 0.00000000 37.94099971
-1.44717891 -0.00000070 0.00000000 0.00199195
-1.34134351 -0.00000070 0.00000000 0.00234255
-1.39426121 -0.05291840 0.00000000 -4.83626168
-1.39426121 0.05291700 0.00000000 4.84239554
-0.75004826 -1.20746268 0.00000000 85.23912532
-0.64421285 -1.20746268 0.00000000 93.27187296
-0.69713055 -1.26038038 0.00000000 -37.94226491
-0.69713055 -1.15454498 0.00000000 -43.77253092
30 37879.0 # 264.0 nm, (r2r1) 30 = 1Lb_v2 state
0.00001159 -0.17200000 0.00000000 1.0 # electr. mom.
0.00000000 0.00000000 0.1066111229E-05 # magnet. mom.
0.69712898 -1.20746181 0.00000000 70.59310573
1.39425828 0.00000067 0.00000000 0.00162336
0.69713190 1.20746372 0.00000000 -70.58959387
-0.69712801 1.20746079 0.00000000 -70.59222477
-1.39426121 -0.00000070 0.00000000 0.00760687
-0.69713055 -1.20746268 0.00000000 70.57959846
0.64421128 -1.20746181 0.00000000 -67.98324559
0.75004668 -1.20746181 0.00000000 -62.12806338
0.69712898 -1.26037951 0.00000000 27.65128625
0.69712898 -1.15454411 0.00000000 31.90002540
1.34134058 0.00000067 0.00000000 -0.00049371
1.44717598 0.00000067 0.00000000 -0.00053130
1.39425828 -0.05291703 0.00000000 3.52676974
1.39425828 0.05291837 0.00000000 -3.52735317
0.64421420 1.20746372 0.00000000 67.98063674
0.75004960 1.20746372 0.00000000 62.12611643
0.69713190 1.15454602 0.00000000 -31.89962036
0.69713190 1.26038142 0.00000000 -27.65072911
-0.75004571 1.20746079 0.00000000 62.12830162
-0.64421031 1.20746079 0.00000000 67.98347594
-0.69712801 1.15454309 0.00000000 -31.90076158
-0.69712801 1.26037849 0.00000000 -27.65191504
-1.44717891 -0.00000070 0.00000000 -0.00145176
-1.34134351 -0.00000070 0.00000000 -0.00170728
-1.39426121 -0.05291840 0.00000000 3.52473309
-1.39426121 0.05291700 0.00000000 -3.52920353
-0.75004826 -1.20746268 0.00000000 -62.12343032
-0.64421285 -1.20746268 0.00000000 -67.97780572
-0.69713055 -1.26038038 0.00000000 27.65283714
-0.69713055 -1.15454498 0.00000000 31.90201406
30 38287.0 # 261.2 nm, (r2r1) 30 = 1Lb_v3 state
0.00001159 0.19600000 0.00000000 1.0 # electr. mom.
0.00000000 0.00000000 0.1066111229E-05 # magnet. mom.
0.69712898 -1.20746181 0.00000000 -80.44330653
1.39425828 0.00000067 0.00000000 -0.00184987
0.69713190 1.20746372 0.00000000 80.43930465
-0.69712801 1.20746079 0.00000000 80.44230265
-1.39426121 -0.00000070 0.00000000 -0.00866830
-0.69713055 -1.20746268 0.00000000 -80.42791452
0.64421128 -1.20746181 0.00000000 77.46927986
0.75004668 -1.20746181 0.00000000 70.79709548
0.69712898 -1.26037951 0.00000000 -31.50960526

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	0.69712898	-1.15454411	0.00000000	-36.35119173
	1.34134058	0.00000067	0.00000000	0.00056260
	1.44717598	0.00000067	0.00000000	0.00060543
	1.39425828	-0.05291703	0.00000000	-4.01887715
	1.39425828	0.05291837	0.00000000	4.01954199
	0.64421420	1.20746372	0.00000000	-77.46630698
	0.75004960	1.20746372	0.00000000	-70.79487686
	0.69713190	1.15454602	0.00000000	36.35073017
	0.69713190	1.26038142	0.00000000	31.50897038
	-0.75004571	1.20746079	0.00000000	-70.79736697
	-0.64421031	1.20746079	0.00000000	-77.46954235
	-0.69712801	1.15454309	0.00000000	36.35203064
	-0.69712801	1.26037849	0.00000000	31.51032179
	-1.44717891	-0.00000070	0.00000000	0.00165433
	-1.34134351	-0.00000070	0.00000000	0.00194551
	-1.39426121	-0.05291840	0.00000000	-4.01655631
	-1.39426121	0.05291700	0.00000000	4.02165053
	-0.75004826	-1.20746268	0.00000000	70.79181594
	-0.64421285	-1.20746268	0.00000000	77.46308093
	-0.69713055	-1.26038038	0.00000000	-31.51137255
	-0.69713055	-1.15454498	0.00000000	-36.35345788
30	38805.0	# 257.7 nm, (r2r1) 30 = 1Lb_v4 state		
	0.00001159	-0.14000000	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	0.1066111229E-05	# magnet. mom.
	0.69712898	-1.20746181	0.00000000	57.45950467
	1.39425828	0.00000067	0.00000000	0.00132134
	0.69713190	1.20746372	0.00000000	-57.45664618
	-0.69712801	1.20746079	0.00000000	-57.45878761
	-1.39426121	-0.00000070	0.00000000	0.00619164
	-0.69713055	-1.20746268	0.00000000	57.44851037
	0.64421128	-1.20746181	0.00000000	-55.33519990
	0.75004668	-1.20746181	0.00000000	-50.56935391
	0.69712898	-1.26037951	0.00000000	22.50686090
	0.69712898	-1.15454411	0.00000000	25.96513695
	1.34134058	0.00000067	0.00000000	-0.00040186
	1.44717598	0.00000067	0.00000000	-0.00043245
	1.39425828	-0.05291703	0.00000000	2.87062654
	1.39425828	0.05291837	0.00000000	-2.87110142
	0.64421420	1.20746372	0.00000000	55.33307642
	0.75004960	1.20746372	0.00000000	50.56776919
	0.69713190	1.15454602	0.00000000	-25.96480727
	0.69713190	1.26038142	0.00000000	-22.50640741
	-0.75004571	1.20746079	0.00000000	50.56954783
	-0.64421031	1.20746079	0.00000000	55.33538739
	-0.69712801	1.15454309	0.00000000	-25.96573617
	-0.69712801	1.26037849	0.00000000	-22.50737271
	-1.44717891	-0.00000070	0.00000000	-0.00118166
	-1.34134351	-0.00000070	0.00000000	-0.00138965
	-1.39426121	-0.05291840	0.00000000	2.86896880
	-1.39426121	0.05291700	0.00000000	-2.87260752
	-0.75004826	-1.20746268	0.00000000	-50.56558282
	-0.64421285	-1.20746268	0.00000000	-55.33077209
	-0.69713055	-1.26038038	0.00000000	22.50812325
	-0.69713055	-1.15454498	0.00000000	25.96675563
30	39263.0	# 254.7 nm, (r2r1) 30 = 1Lb_v5 state		
	0.00001159	0.10400000	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	0.1066111229E-05	# magnet. mom.
	0.69712898	-1.20746181	0.00000000	-42.68420347
	1.39425828	0.00000067	0.00000000	-0.00098157
	0.69713190	1.20746372	0.00000000	42.68208002
	-0.69712801	1.20746079	0.00000000	42.68367079
	-1.39426121	-0.00000070	0.00000000	-0.00459950
	-0.69713055	-1.20746268	0.00000000	-42.67603628
	0.64421128	-1.20746181	0.00000000	41.10614850
	0.75004668	-1.20746181	0.00000000	37.56580576
	0.69712898	-1.26037951	0.00000000	-16.71938238
	0.69712898	-1.15454411	0.00000000	-19.28838745
	1.34134058	0.00000067	0.00000000	0.00029852
	1.44717598	0.00000067	0.00000000	0.00032125
	1.39425828	-0.05291703	0.00000000	-2.13246543
	1.39425828	0.05291837	0.00000000	2.13281820
	0.64421420	1.20746372	0.00000000	-41.10457105
	0.75004960	1.20746372	0.00000000	-37.56462854
	0.69713190	1.15454602	0.00000000	19.28814254
	0.69713190	1.26038142	0.00000000	16.71904551
	-0.75004571	1.20746079	0.00000000	-37.56594982
	-0.64421031	1.20746079	0.00000000	-41.10628778
	-0.69712801	1.15454309	0.00000000	19.28883258
	-0.69712801	1.26037849	0.00000000	16.71976258
	-1.44717891	-0.00000070	0.00000000	0.00087781
	-1.34134351	-0.00000070	0.00000000	0.00103231
	-1.39426121	-0.05291840	0.00000000	-2.13123396
	-1.39426121	0.05291700	0.00000000	2.13393702
	-0.75004826	-1.20746268	0.00000000	37.56300438
	-0.64421285	-1.20746268	0.00000000	41.10285927
	-0.69713055	-1.26038038	0.00000000	-16.72032013
	-0.69713055	-1.15454498	0.00000000	-19.28958990

30	39714.0	# 251.8 nm, (r2r1) 30 = 1Lb_v6 state		
	0.00001159	-0.07200000	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	0.1066111229E-05	# magnet. mom.
	0.69712898	-1.20746181	0.00000000	29.55060240
	1.39425828	0.00000067	0.00000000	0.00067955
	0.69713190	1.20746372	0.00000000	-29.54913232
	-0.69712801	1.20746079	0.00000000	-29.55023363
	-1.39426121	-0.00000070	0.00000000	0.00318427
	-0.69713055	-1.20746268	0.00000000	29.54494819
	0.64421128	-1.20746181	0.00000000	-28.45810281
	0.75004668	-1.20746181	0.00000000	-26.00709630
	0.69712898	-1.26037951	0.00000000	11.57495703
	0.69712898	-1.15454411	0.00000000	13.35349900
	1.34134058	0.00000067	0.00000000	-0.00020667
	1.44717598	0.00000067	0.00000000	-0.00022240
	1.39425828	-0.05291703	0.00000000	1.47632222
	1.39425828	0.05291837	0.00000000	-1.47656644
	0.64421420	1.20746372	0.00000000	28.45701073
	0.75004960	1.20746372	0.00000000	26.00628130
	0.69713190	1.15454602	0.00000000	-13.35332945
	0.69713190	1.26038142	0.00000000	-11.57472381
	-0.75004571	1.20746079	0.00000000	26.00719603
	-0.64421031	1.20746079	0.00000000	28.45819923
	-0.69712801	1.15454309	0.00000000	-13.35380717
	-0.69712801	1.26037849	0.00000000	-11.57522050
	-1.44717891	-0.00000070	0.00000000	-0.00060771
	-1.34134351	-0.00000070	0.00000000	-0.00071468
	-1.39426121	-0.05291840	0.00000000	1.47546967
	-1.39426121	0.05291700	0.00000000	-1.47734101
	-0.75004826	-1.20746268	0.00000000	-26.00515688
	-0.64421285	-1.20746268	0.00000000	-28.45582565
	-0.69713055	-1.26038038	0.00000000	11.57560624
	-0.69713055	-1.15454498	0.00000000	13.35433147
30	47953.0	# 208.5 nm, (r3r1) 30 = 1La state		
	-0.00181497	0.00001159	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	-0.9176476175E-06	# magnet. mom.
	0.69712898	-1.20746181	0.00000000	-720.10281331
	1.39425828	0.00000067	0.00000000	676.46791718
	0.69713190	1.20746372	0.00000000	-719.51123026
	-0.69712801	1.20746079	0.00000000	719.55152597
	-1.39426121	-0.00000070	0.00000000	-676.54491115
	-0.69713055	-1.20746268	0.00000000	720.15377184
	0.64421128	-1.20746181	0.00000000	189.43097314
	0.75004668	-1.20746181	0.00000000	178.04942880
	0.69712898	-1.26037951	0.00000000	169.00110437
	0.69712898	-1.15454411	0.00000000	184.16175480
	1.34134058	0.00000067	0.00000000	-183.99266875
	1.44717598	0.00000067	0.00000000	-166.48118774
	1.39425828	-0.05291703	0.00000000	-163.17095611
	1.39425828	0.05291837	0.00000000	-163.16527032
	0.64421420	1.20746372	0.00000000	189.00656837
	0.75004960	1.20746372	0.00000000	177.69744029
	0.69713190	1.15454602	0.00000000	184.26697454
	0.69713190	1.26038142	0.00000000	169.07670418
	-0.75004571	1.20746079	0.00000000	-177.76016923
	-0.64421031	1.20746079	0.00000000	-189.07656043
	-0.69712801	1.15454309	0.00000000	-184.21937510
	-0.69712801	1.26037849	0.00000000	-169.03211760
	-1.44717891	-0.00000070	0.00000000	166.44732014
	-1.34134351	-0.00000070	0.00000000	183.96049147
	-1.39426121	-0.05291840	0.00000000	163.24288157
	-1.39426121	0.05291700	0.00000000	163.23688824
	-0.75004826	-1.20746268	0.00000000	-178.11526142
	-0.64421285	-1.20746268	0.00000000	-189.50389891
	-0.69713055	-1.26038038	0.00000000	-168.95877480
	-0.69713055	-1.15454498	0.00000000	-184.11655090
30	52322.0	# 191.1 nm, (r6r1) 30 = 1Ba state		
	-5.71534381	-0.00248626	0.00000000	1.0 # electr. mom.
	0.0	0.0	-0.3115391048E-05	# magnet. mom.
	0.69712898	-1.20746181	0.00000000	-392.69530416
	1.39425828	0.00000067	0.00000000	-439.61855126
	0.69713190	1.20746372	0.00000000	-370.02429158
	-0.69712801	1.20746079	0.00000000	392.80345728
	-1.39426121	-0.00000070	0.00000000	439.73613912
	-0.69713055	-1.20746268	0.00000000	370.42051042
	0.64421128	-1.20746181	0.00000000	245.95000790
	0.75004668	-1.20746181	0.00000000	215.39198966
	0.69712898	-1.26037951	0.00000000	-25.53486158
	0.69712898	-1.15454411	0.00000000	-42.00365539
	1.34134058	0.00000067	0.00000000	205.18413682
	1.44717598	0.00000067	0.00000000	180.76575312
	1.39425828	-0.05291703	0.00000000	22.57429123
	1.39425828	0.05291837	0.00000000	31.71871666
	0.64421420	1.20746372	0.00000000	230.77598078
	0.75004960	1.20746372	0.00000000	193.55789659
	0.69713190	1.15454602	0.00000000	-36.94518475
	0.69713190	1.26038142	0.00000000	-16.81912488

-0.75004571	1.20746079	0.00000000	-215.40469354
-0.64421031	1.20746079	0.00000000	-245.95670050
-0.69712801	1.15454309	0.00000000	41.96337346
-0.69712801	1.26037849	0.00000000	25.48769650
-1.44717891	-0.00000070	0.00000000	-180.82241486
-1.34134351	-0.00000070	0.00000000	-205.24329826
-1.39426121	-0.05291840	0.00000000	-31.71334325
-1.39426121	0.05291700	0.00000000	-22.58131157
-0.75004826	-1.20746268	0.00000000	-193.72087320
-0.64421285	-1.20746268	0.00000000	-230.94680266
-0.69713055	-1.26038038	0.00000000	16.78989144
-0.69713055	-1.15454498	0.00000000	36.91056950
30	52532.0	# 190.4 nm, (r7r1) 30 = 1Bb state	
-0.00093506	5.73201442	0.00000000 1.0	# electr. mom.
0.0	0.0	-0.2505031327E-03	# magnet. mom.
0.69712898	-1.20746181	0.00000000	-309.50876290
1.39425828	0.00000067	0.00000000	-29.17040098
0.69713190	1.20746372	0.00000000	685.77686261
-0.69712801	1.20746079	0.00000000	309.59074200
-1.39426121	-0.00000070	0.00000000	29.30014138
-0.69713055	-1.20746268	0.00000000	-685.91994019
0.64421128	-1.20746181	0.00000000	10.97927957
0.75004668	-1.20746181	0.00000000	37.38172162
0.69712898	-1.26037951	0.00000000	123.03838987
0.69712898	-1.15454411	0.00000000	136.18476466
1.34134058	0.00000067	0.00000000	21.76816522
1.44717598	0.00000067	0.00000000	19.54822925
1.39425828	-0.05291703	0.00000000	-12.50673437
1.39425828	0.05291837	0.00000000	0.19187083
0.64421420	1.20746372	0.00000000	-201.76558306
0.75004960	1.20746372	0.00000000	-182.09675491
0.69713190	1.15454602	0.00000000	-155.85576653
0.69713190	1.26038142	0.00000000	-147.12570941
-0.75004571	1.20746079	0.00000000	-37.41335160
-0.64421031	1.20746079	0.00000000	-11.02902158
-0.69712801	1.15454309	0.00000000	-136.18006138
-0.69712801	1.26037849	0.00000000	-123.04418227
-1.44717891	-0.00000070	0.00000000	-19.58466312
-1.34134351	-0.00000070	0.00000000	-21.80622221
-1.39426121	-0.05291840	0.00000000	-0.21497419
-1.39426121	0.05291700	0.00000000	12.47465251
-0.75004826	-1.20746268	0.00000000	182.13462413
-0.64421285	-1.20746268	0.00000000	201.82307318
-0.69713055	-1.26038038	0.00000000	147.15209285
-0.69713055	-1.15454498	0.00000000	155.87752099
&TRANSITION 2->...			
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r3r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r6r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r7r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
&TRANSITION 3->...			
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r3r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 0.0	# magnet. mom.
0	0.0	# (r6r2) 30	

```

0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r7r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
&TRANSITION 4->...
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r3r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r6r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r7r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
&TRANSITION 5->...
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r3r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r6r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r7r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
&TRANSITION 6->...
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r3r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r6r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r7r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
&TRANSITION 7->...
0 0.0 # (r3r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r6r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r7r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
&TRANSITION 8->...
0 0.0 # (r6r3) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r7r3) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
&TRANSITION 9->...
0 0.0 # (r7r6) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
&PERMANENT MOMENTS
30 0.0 # 0 nm, Grd. (r1r1) 30
-0.00016991 0.00016902 0.00000000 1.0 # electr. mom.
0.69712898 -1.20746181 0.00000000 -1072.58045587
1.39425828 0.00000067 0.00000000 -2512.11222830
0.69713190 1.20746372 0.00000000 -1191.59753688
-0.69712801 1.20746079 0.00000000 -1073.00910576
-1.39426121 -0.00000070 0.00000000 -2512.25643950
-0.69713055 -1.20746268 0.00000000 -1191.95144218
0.64421128 -1.20746181 0.00000000 421.14125304
0.75004668 -1.20746181 0.00000000 396.28081896
0.69712898 -1.26037951 0.00000000 136.54235846
0.69712898 -1.15454411 0.00000000 116.16425837

```

	1.34134058	0.00000067	0.00000000	340.56728323
	1.44717598	0.00000067	0.00000000	297.21605093
	1.39425828	-0.05291703	0.00000000	927.34693128
	1.39425828	0.05291837	0.00000000	953.47234675
	0.64421420	1.20746372	0.00000000	312.41237410
	0.75004960	1.20746372	0.00000000	275.15783717
	0.69713190	1.15454602	0.00000000	286.75977466
	0.69713190	1.26038142	0.00000000	313.22575584
	-0.75004571	1.20746079	0.00000000	396.53957155
	-0.64421031	1.20746079	0.00000000	421.43850562
	-0.69712801	1.15454309	0.00000000	116.09598274
	-0.69712801	1.26037849	0.00000000	136.48603714
	-1.44717891	-0.00000070	0.00000000	297.27514522
	-1.34134351	-0.00000070	0.00000000	340.64352682
	-1.39426121	-0.05291840	0.00000000	953.48065656
	-1.39426121	0.05291700	0.00000000	927.34883222
	-0.75004826	-1.20746268	0.00000000	275.37223637
	-0.64421285	-1.20746268	0.00000000	312.66985104
	-0.69713055	-1.26038038	0.00000000	313.17469018
	-0.69713055	-1.15454498	0.00000000	286.69513022
30	0.0 # 0 nm, 1st Exc. (r2r2) 30			
	-0.00014141	0.00029094	0.00000000	1.0 # electr. mom.
	0.69712898	-1.20746181	0.00000000	-994.42567205
	1.39425828	0.00000067	0.00000000	70.45827883
	0.69713190	1.20746372	0.00000000	-1027.25930923
	-0.69712801	1.20746079	0.00000000	-994.26996144
	-1.39426121	-0.00000070	0.00000000	70.25247806
	-0.69713055	-1.20746268	0.00000000	-1027.09117330
	0.64421128	-1.20746181	0.00000000	248.83619779
	0.75004668	-1.20746181	0.00000000	267.78514637
	0.69712898	-1.26037951	0.00000000	233.31463915
	0.69712898	-1.15454411	0.00000000	246.28641547
	1.34134058	0.00000067	0.00000000	264.39424315
	1.44717598	0.00000067	0.00000000	277.70519323
	1.39425828	-0.05291703	0.00000000	-307.89995021
	1.39425828	0.05291837	0.00000000	-308.56462056
	0.64421420	1.20746372	0.00000000	269.89306666
	0.75004960	1.20746372	0.00000000	285.65241802
	0.69713190	1.15454602	0.00000000	243.56387453
	0.69713190	1.26038142	0.00000000	230.26174354
	-0.75004571	1.20746079	0.00000000	267.67396085
	-0.64421031	1.20746079	0.00000000	248.70106392
	-0.69712801	1.15454309	0.00000000	246.32938694
	-0.69712801	1.26037849	0.00000000	233.36048458
	-1.44717891	-0.00000070	0.00000000	277.77610963
	-1.34134351	-0.00000070	0.00000000	264.47018626
	-1.39426121	-0.05291840	0.00000000	-308.53441090
	-1.39426121	0.05291700	0.00000000	-307.87068562
	-0.75004826	-1.20746268	0.00000000	285.56298317
	-0.64421285	-1.20746268	0.00000000	269.78279482
	-0.69713055	-1.26038038	0.00000000	230.27790874
	-0.69713055	-1.15454498	0.00000000	243.57720965
30	0.0 # 0 nm, 1st Exc. (r2r2) 30			
	-0.00014141	0.00029094	0.00000000	1.0 # electr. mom.
	0.69712898	-1.20746181	0.00000000	-994.42567205
	1.39425828	0.00000067	0.00000000	70.45827883
	0.69713190	1.20746372	0.00000000	-1027.25930923
	-0.69712801	1.20746079	0.00000000	-994.26996144
	-1.39426121	-0.00000070	0.00000000	70.25247806
	-0.69713055	-1.20746268	0.00000000	-1027.09117330
	0.64421128	-1.20746181	0.00000000	248.83619779
	0.75004668	-1.20746181	0.00000000	267.78514637
	0.69712898	-1.26037951	0.00000000	233.31463915
	0.69712898	-1.15454411	0.00000000	246.28641547
	1.34134058	0.00000067	0.00000000	264.39424315
	1.44717598	0.00000067	0.00000000	277.70519323
	1.39425828	-0.05291703	0.00000000	-307.89995021
	1.39425828	0.05291837	0.00000000	-308.56462056
	0.64421420	1.20746372	0.00000000	269.89306666
	0.75004960	1.20746372	0.00000000	285.65241802
	0.69713190	1.15454602	0.00000000	243.56387453
	0.69713190	1.26038142	0.00000000	230.26174354
	-0.75004571	1.20746079	0.00000000	267.67396085
	-0.64421031	1.20746079	0.00000000	248.70106392
	-0.69712801	1.15454309	0.00000000	246.32938694
	-0.69712801	1.26037849	0.00000000	233.36048458
	-1.44717891	-0.00000070	0.00000000	277.77610963
	-1.34134351	-0.00000070	0.00000000	264.47018626
	-1.39426121	-0.05291840	0.00000000	-308.53441090
	-1.39426121	0.05291700	0.00000000	-307.87068562
	-0.75004826	-1.20746268	0.00000000	285.56298317
	-0.64421285	-1.20746268	0.00000000	269.78279482
	-0.69713055	-1.26038038	0.00000000	230.27790874
	-0.69713055	-1.15454498	0.00000000	243.57720965
30	0.0 # 0 nm, 1st Exc. (r2r2) 30			
	-0.00014141	0.00029094	0.00000000	1.0 # electr. mom.
	0.69712898	-1.20746181	0.00000000	-994.42567205

	1.39425828	0.00000067	0.00000000	70.45827883
	0.69713190	1.20746372	0.00000000	-1027.25930923
	-0.69712801	1.20746079	0.00000000	-994.26996144
	-1.39426121	-0.00000070	0.00000000	70.25247806
	-0.69713055	-1.20746268	0.00000000	-1027.09117330
	0.64421128	-1.20746181	0.00000000	248.83619779
	0.75004668	-1.20746181	0.00000000	267.78514637
	0.69712898	-1.26037951	0.00000000	233.31463915
	0.69712898	-1.15454411	0.00000000	246.28641547
	1.34134058	0.00000067	0.00000000	264.39424315
	1.44717598	0.00000067	0.00000000	277.70519323
	1.39425828	-0.05291703	0.00000000	-307.89995021
	1.39425828	0.05291837	0.00000000	-308.56462056
	0.64421420	1.20746372	0.00000000	269.89306666
	0.75004960	1.20746372	0.00000000	285.65241802
	0.69713190	1.15454602	0.00000000	243.56387453
	0.69713190	1.26038142	0.00000000	230.26174354
	-0.75004571	1.20746079	0.00000000	267.67396085
	-0.64421031	1.20746079	0.00000000	248.70106392
	-0.69712801	1.15454309	0.00000000	246.32938694
	-0.69712801	1.26037849	0.00000000	233.36048458
	-1.44717891	-0.00000070	0.00000000	277.77610963
	-1.34134351	-0.00000070	0.00000000	264.47018626
	-1.39426121	-0.05291840	0.00000000	-308.53441090
	-1.39426121	0.05291700	0.00000000	-307.87068562
	-0.75004826	-1.20746268	0.00000000	285.56298317
	-0.64421285	-1.20746268	0.00000000	269.78279482
	-0.69713055	-1.26038038	0.00000000	230.27790874
	-0.69713055	-1.15454498	0.00000000	243.57720965
30	0.0 # 0 nm, 1st Exc. (r2r2) 30			
	-0.00014141	0.00029094	0.00000000	1.0 # electr. mom.
	0.69712898	-1.20746181	0.00000000	-994.42567205
	1.39425828	0.00000067	0.00000000	70.45827883
	0.69713190	1.20746372	0.00000000	-1027.25930923
	-0.69712801	1.20746079	0.00000000	-994.26996144
	-1.39426121	-0.00000070	0.00000000	70.25247806
	-0.69713055	-1.20746268	0.00000000	-1027.09117330
	0.64421128	-1.20746181	0.00000000	248.83619779
	0.75004668	-1.20746181	0.00000000	267.78514637
	0.69712898	-1.26037951	0.00000000	233.31463915
	0.69712898	-1.15454411	0.00000000	246.28641547
	1.34134058	0.00000067	0.00000000	264.39424315
	1.44717598	0.00000067	0.00000000	277.70519323
	1.39425828	-0.05291703	0.00000000	-307.89995021
	1.39425828	0.05291837	0.00000000	-308.56462056
	0.64421420	1.20746372	0.00000000	269.89306666
	0.75004960	1.20746372	0.00000000	285.65241802
	0.69713190	1.15454602	0.00000000	243.56387453
	0.69713190	1.26038142	0.00000000	230.26174354
	-0.75004571	1.20746079	0.00000000	267.67396085
	-0.64421031	1.20746079	0.00000000	248.70106392
	-0.69712801	1.15454309	0.00000000	246.32938694
	-0.69712801	1.26037849	0.00000000	233.36048458
	-1.44717891	-0.00000070	0.00000000	277.77610963
	-1.34134351	-0.00000070	0.00000000	264.47018626
	-1.39426121	-0.05291840	0.00000000	-308.53441090
	-1.39426121	0.05291700	0.00000000	-307.87068562
	-0.75004826	-1.20746268	0.00000000	285.56298317
	-0.64421285	-1.20746268	0.00000000	269.78279482
	-0.69713055	-1.26038038	0.00000000	230.27790874
	-0.69713055	-1.15454498	0.00000000	243.57720965
30	0.0 # 0 nm, 1st Exc. (r2r2) 30			
	-0.00014141	0.00029094	0.00000000	1.0 # electr. mom.
	0.69712898	-1.20746181	0.00000000	-994.42567205
	1.39425828	0.00000067	0.00000000	70.45827883
	0.69713190	1.20746372	0.00000000	-1027.25930923
	-0.69712801	1.20746079	0.00000000	-994.26996144
	-1.39426121	-0.00000070	0.00000000	70.25247806
	-0.69713055	-1.20746268	0.00000000	-1027.09117330
	0.64421128	-1.20746181	0.00000000	248.83619779
	0.75004668	-1.20746181	0.00000000	267.78514637
	0.69712898	-1.26037951	0.00000000	233.31463915
	0.69712898	-1.15454411	0.00000000	246.28641547
	1.34134058	0.00000067	0.00000000	264.39424315
	1.44717598	0.00000067	0.00000000	277.70519323
	1.39425828	-0.05291703	0.00000000	-307.89995021
	1.39425828	0.05291837	0.00000000	-308.56462056
	0.64421420	1.20746372	0.00000000	269.89306666
	0.75004960	1.20746372	0.00000000	285.65241802
	0.69713190	1.15454602	0.00000000	243.56387453
	0.69713190	1.26038142	0.00000000	230.26174354
	-0.75004571	1.20746079	0.00000000	267.67396085
	-0.64421031	1.20746079	0.00000000	248.70106392
	-0.69712801	1.15454309	0.00000000	246.32938694
	-0.69712801	1.26037849	0.00000000	233.36048458
	-1.44717891	-0.00000070	0.00000000	277.77610963
	-1.34134351	-0.00000070	0.00000000	264.47018626

	-1.39426121	-0.05291840	0.00000000	-308.53441090
	-1.39426121	0.05291700	0.00000000	-307.87068562
	-0.75004826	-1.20746268	0.00000000	285.56298317
	-0.64421285	-1.20746268	0.00000000	269.78279482
	-0.69713055	-1.26038038	0.00000000	230.27790874
	-0.69713055	-1.15454498	0.00000000	243.57720965
30	0.0 # 0 nm, 1st Exc. (r2r2) 30			
	-0.00014141	0.00029094	0.00000000	1.0 # electr. mom.
	0.69712898	-1.20746181	0.00000000	-994.42567205
	1.39425828	0.00000067	0.00000000	70.45827883
	0.69713190	1.20746372	0.00000000	-1027.25930923
	-0.69712801	1.20746079	0.00000000	-994.26996144
	-1.39426121	-0.00000070	0.00000000	70.25247806
	-0.69713055	-1.20746268	0.00000000	-1027.09117330
	0.64421128	-1.20746181	0.00000000	248.83619779
	0.75004668	-1.20746181	0.00000000	267.78514637
	0.69712898	-1.26037951	0.00000000	233.31463915
	0.69712898	-1.15454411	0.00000000	246.28641547
	1.34134058	0.00000067	0.00000000	264.39424315
	1.44717598	0.00000067	0.00000000	277.70519323
	1.39425828	-0.05291703	0.00000000	-307.89995021
	1.39425828	0.05291837	0.00000000	-308.56462056
	0.64421420	1.20746372	0.00000000	269.89306666
	0.75004960	1.20746372	0.00000000	285.65241802
	0.69713190	1.15454602	0.00000000	243.56387453
	0.69713190	1.26038142	0.00000000	230.26174354
	-0.75004571	1.20746079	0.00000000	267.67396085
	-0.64421031	1.20746079	0.00000000	248.70106392
	-0.69712801	1.15454309	0.00000000	246.32938694
	-0.69712801	1.26037849	0.00000000	233.36048458
	-1.44717891	-0.00000070	0.00000000	277.77610963
	-1.34134351	-0.00000070	0.00000000	264.47018626
	-1.39426121	-0.05291840	0.00000000	-308.53441090
	-1.39426121	0.05291700	0.00000000	-307.87068562
	-0.75004826	-1.20746268	0.00000000	285.56298317
	-0.64421285	-1.20746268	0.00000000	269.78279482
	-0.69713055	-1.26038038	0.00000000	230.27790874
	-0.69713055	-1.15454498	0.00000000	243.57720965
30	0.0 # 0 nm, 2nd Exc. (r3r3) 30			
	-0.00291686	0.00618851	0.00000000	1.0 # electr. mom.
	0.69712898	-1.20746181	0.00000000	-1160.35437240
	1.39425828	0.00000067	0.00000000	0.65288045
	0.69713190	1.20746372	0.00000000	-1183.39483694
	-0.69712801	1.20746079	0.00000000	-1159.22585184
	-1.39426121	-0.00000070	0.00000000	1.06361414
	-0.69713055	-1.20746268	0.00000000	-1183.55918016
	0.64421128	-1.20746181	0.00000000	302.23646904
	0.75004668	-1.20746181	0.00000000	320.88800918
	0.69712898	-1.26037951	0.00000000	263.22523834
	0.69712898	-1.15454411	0.00000000	275.89216536
	1.34134058	0.00000067	0.00000000	298.97769768
	1.44717598	0.00000067	0.00000000	311.91559786
	1.39425828	-0.05291703	0.00000000	-307.53548021
	1.39425828	0.05291837	0.00000000	-308.01692510
	0.64421420	1.20746372	0.00000000	317.24999784
	0.75004960	1.20746372	0.00000000	333.57399547
	0.69713190	1.15454602	0.00000000	273.78813000
	0.69713190	1.26038142	0.00000000	260.90269171
	-0.75004571	1.20746079	0.00000000	320.43349238
	-0.64421031	1.20746079	0.00000000	301.70304682
	-0.69712801	1.15454309	0.00000000	275.83288973
	-0.69712801	1.26037849	0.00000000	263.14759411
	-1.44717891	-0.00000070	0.00000000	311.97391877
	-1.34134351	-0.00000070	0.00000000	299.03338090
	-1.39426121	-0.05291840	0.00000000	-308.23744008
	-1.39426121	0.05291700	0.00000000	-307.83870389
	-0.75004826	-1.20746268	0.00000000	333.53316130
	-0.64421285	-1.20746268	0.00000000	317.21538720
	-0.69713055	-1.26038038	0.00000000	261.03370613
	-0.69713055	-1.15454498	0.00000000	273.88972622
30	0.0 # 0 nm, 3rd Exc. (r6r6) 30			
	-0.00209383	0.00210373	0.00000000	1.0 # electr. mom.
	0.69712898	-1.20746181	0.00000000	-1625.45239752
	1.39425828	0.00000067	0.00000000	497.75810496
	0.69713190	1.20746372	0.00000000	-1069.73659243
	-0.69712801	1.20746079	0.00000000	-1625.19639250
	-1.39426121	-0.00000070	0.00000000	498.20869032
	-0.69713055	-1.20746268	0.00000000	-1069.44016906
	0.64421128	-1.20746181	0.00000000	662.90515440
	0.75004668	-1.20746181	0.00000000	621.40324646
	0.69712898	-1.26037951	0.00000000	166.05997075
	0.69712898	-1.15454411	0.00000000	183.33685344
	1.34134058	0.00000067	0.00000000	93.45928954
	1.44717598	0.00000067	0.00000000	151.60749418
	1.39425828	-0.05291703	0.00000000	-381.73751136
	1.39425828	0.05291837	0.00000000	-369.28409467
	0.64421420	1.20746372	0.00000000	-80.38651325

0.75004960	1.20746372	0.00000000	2.85851866
0.69713190	1.15454602	0.00000000	605.14385203
0.69713190	1.26038142	0.00000000	542.06716320
-0.75004571	1.20746079	0.00000000	621.20486338
-0.64421031	1.20746079	0.00000000	662.62374528
-0.69712801	1.15454309	0.00000000	183.46406256
-0.69712801	1.26037849	0.00000000	166.15773706
-1.44717891	-0.00000070	0.00000000	151.64625110
-1.34134351	-0.00000070	0.00000000	93.47459890
-1.39426121	-0.05291840	0.00000000	-369.51418541
-1.39426121	0.05291700	0.00000000	-382.01476685
-0.75004826	-1.20746268	0.00000000	2.66895854
-0.64421285	-1.20746268	0.00000000	-80.61205546
-0.69713055	-1.26038038	0.00000000	542.12078112
-0.69713055	-1.15454498	0.00000000	605.20534267
30 0.0 # 0 nm, 4th Exc. (r7r7) 30			
-0.00279529	0.00122626	0.00000000	1.0 # electr. mom.
0.69712898	-1.20746181	0.00000000	-1485.80130346
1.39425828	0.00000067	0.00000000	562.67742797
0.69713190	1.20746372	0.00000000	-1297.94006429
-0.69712801	1.20746079	0.00000000	-1483.39510200
-1.39426121	-0.00000070	0.00000000	563.36592624
-0.69713055	-1.20746268	0.00000000	-1297.70400782
0.64421128	-1.20746181	0.00000000	600.82047154
0.75004668	-1.20746181	0.00000000	571.56760531
0.69712898	-1.26037951	0.00000000	152.69549866
0.69712898	-1.15454411	0.00000000	167.74937333
1.34134058	0.00000067	0.00000000	110.78831779
1.44717598	0.00000067	0.00000000	167.76991891
1.39425828	-0.05291703	0.00000000	-428.33415221
1.39425828	0.05291837	0.00000000	-421.18621190
0.64421420	1.20746372	0.00000000	58.36522406
0.75004960	1.20746372	0.00000000	125.06726664
0.69713190	1.15454602	0.00000000	588.66257765
0.69713190	1.26038142	0.00000000	527.10449424
-0.75004571	1.20746079	0.00000000	570.70570570
-0.64421031	1.20746079	0.00000000	599.83544770
-0.69712801	1.15454309	0.00000000	167.45762002
-0.69712801	1.26037849	0.00000000	152.42147006
-1.44717891	-0.00000070	0.00000000	167.61254544
-1.34134351	-0.00000070	0.00000000	110.61341242
-1.39426121	-0.05291840	0.00000000	-421.35570106
-1.39426121	0.05291700	0.00000000	-428.51997322
-0.75004826	-1.20746268	0.00000000	124.83602256
-0.64421285	-1.20746268	0.00000000	58.06349035
-0.69713055	-1.26038038	0.00000000	527.24740550
-0.69713055	-1.15454498	0.00000000	588.80929392

```

-TYRVIB00-
7 # Tyrosine_aromatic group / p-cresol
1.23557695 -0.00671127 0.00000000 1.0 # CZ
0.54866976 1.20505781 0.00000000 1.0 # CE1
0.53489462 -1.20761830 0.00000000 1.0 # CE2
-0.84197834 1.20827128 0.00000000 1.0 # CD1
-0.86024633 -1.19659626 0.00000000 1.0 # CD2
-1.55492874 0.00867527 0.00000000 1.0 # CG
2.59151053 0.04298367 0.00000000 1.0 # O

&TRANSITION 1->...
35 34965.0 # 286.0 nm, (r2r1) = 1Lb_v1 state
-0.0501 -0.6199 0.00000000 1.0 # electr. mom.
0.0 0.0 0.2174085006 # magnet. mom.
2.59150928 0.04298365 0.00000000 -70.70654815
0.53489436 -1.20761772 0.00000000 12.07940493
1.23557636 -0.00671127 0.00000000 257.62759180
0.54866949 1.20505723 0.00000000 -21.75079997
-0.84197793 1.20827070 0.00000000 -227.36804401
-1.55492799 0.00867526 0.00000000 80.48459892
-0.86024592 -1.19659568 0.00000000 133.88839299
2.53859158 0.04298365 0.00000000 43.32020886
2.64442698 0.04298365 0.00000000 32.24828912
2.59150928 -0.00993405 0.00000000 -2.39473768
2.59150928 0.09590135 0.00000000 -1.45341104
0.48197666 -1.20761772 0.00000000 -4.77916543
0.58781206 -1.20761772 0.00000000 -13.66943915
0.53489436 -1.26053542 0.00000000 3.02588363
0.53489436 -1.15470002 0.00000000 4.44985547
1.18265866 -0.00671127 0.00000000 -103.42184606
1.28849406 -0.00671127 0.00000000 -116.28261585
1.23557636 -0.05962897 0.00000000 -12.57351941
1.23557636 0.04620643 0.00000000 -26.56496369
0.49575179 1.20505723 0.00000000 42.36432705
0.60158719 1.20505723 0.00000000 44.49361363
0.54866949 1.15213953 0.00000000 -34.36574382
0.54866949 1.25797493 0.00000000 -31.18111072
-0.89489563 1.20827070 0.00000000 115.62363257
-0.78906023 1.20827070 0.00000000 129.70222188
-0.84197793 1.15535300 0.00000000 -9.72251335
-0.84197793 1.26118840 0.00000000 -7.58223017
-1.60784569 0.00867526 0.00000000 -14.78677182
-1.50201029 0.00867526 0.00000000 -18.42308662
-1.55492799 -0.04424244 0.00000000 -20.04967361
-1.55492799 0.06159296 0.00000000 -27.60031832
-0.91316362 -1.19659568 0.00000000 -114.37803284
-0.80732822 -1.19659568 0.00000000 -135.29183835
-0.86024592 -1.24951338 0.00000000 52.69904780
-0.86024592 -1.14367798 0.00000000 62.33934143

35 35765.0 # 279.6 nm, (r2r1) = 1Lb_v2 state
-0.0559 -0.6915 0.00000000 1.0 # electr. mom.
0.0 0.0 0.2174085006 # magnet. mom.
2.59150928 0.04298365 0.00000000 -78.86499601
0.53489436 -1.20761772 0.00000000 13.47318242
1.23557636 -0.00671127 0.00000000 287.35385239
0.54866949 1.20505723 0.00000000 -24.26050766
-0.84197793 1.20827070 0.00000000 -253.60281832
-1.55492799 0.00867526 0.00000000 89.77128341
-0.86024592 -1.19659568 0.00000000 149.33705372
2.53859158 0.04298365 0.00000000 48.31869450
2.64442698 0.04298365 0.00000000 35.96924556
2.59150928 -0.00993405 0.00000000 -2.67105357
2.59150928 0.09590135 0.00000000 -1.62111231
0.48197666 -1.20761772 0.00000000 -5.33060760
0.58781206 -1.20761772 0.00000000 -15.24668213
0.53489436 -1.26053542 0.00000000 3.37502405
0.53489436 -1.15470002 0.00000000 4.96330033
1.18265866 -0.00671127 0.00000000 -115.35513599
1.28849406 -0.00671127 0.00000000 -129.69984076
1.23557636 -0.05962897 0.00000000 -14.02431011
1.23557636 0.04620643 0.00000000 -29.63015181
0.49575179 1.20505723 0.00000000 47.25251863
0.60158719 1.20505723 0.00000000 49.62749213
0.54866949 1.15213953 0.00000000 -38.33102195
0.54866949 1.25797493 0.00000000 -34.77893119
-0.89489563 1.20827070 0.00000000 128.96482094
-0.78906023 1.20827070 0.00000000 144.66786286
-0.84197793 1.15535300 0.00000000 -10.84434181
-0.84197793 1.26118840 0.00000000 -8.45710288
-1.60784569 0.00867526 0.00000000 -16.49293780
-1.50201029 0.00867526 0.00000000 -20.54882739
-1.55492799 -0.04424244 0.00000000 -22.36309749
-1.55492799 0.06159296 0.00000000 -30.78497043
-0.91316362 -1.19659568 0.00000000 -127.57549817
-0.80732822 -1.19659568 0.00000000 -150.90243509
-0.86024592 -1.24951338 0.00000000 58.77970716
-0.86024592 -1.14367798 0.00000000 69.53234237

35 36215.0 # 276.1 nm, (r2r1) = 1Lb_v3 state

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	-0.0164	-0.2027	0.00000000	1.0	# electr. mom.
	0.0	0.0	0.2174085006		# magnet. mom.
	2.59150928	0.04298365	0.00000000		-23.11560228
	0.53489436	-1.20761772	0.00000000		3.94903623
	1.23557636	-0.00671127	0.00000000		84.22440501
	0.54866949	1.20505723	0.00000000		-7.11083845
	-0.84197793	1.20827070	0.00000000		-74.33186054
	-1.55492799	0.00867526	0.00000000		26.31227272
	-0.86024592	-1.19659568	0.00000000		43.77120540
	2.53859158	0.04298365	0.00000000		14.16237597
	2.64442698	0.04298365	0.00000000		10.54270991
	2.59150928	-0.00993405	0.00000000		-0.78289501
	2.59150928	0.09590135	0.00000000		-0.47515361
	0.48197666	-1.20761772	0.00000000		-1.56241947
	0.58781206	-1.20761772	0.00000000		-4.46885511
	0.53489436	-1.26053542	0.00000000		0.98923119
	0.53489436	-1.15470002	0.00000000		1.45476044
	1.18265866	-0.00671127	0.00000000		-33.81098814
	1.28849406	-0.00671127	0.00000000		-38.01547057
	1.23557636	-0.05962897	0.00000000		-4.11057365
	1.23557636	0.04620643	0.00000000		-8.68469967
	0.49575179	1.20505723	0.00000000		13.84987615
	0.60158719	1.20505723	0.00000000		14.54598907
	0.54866949	1.15213953	0.00000000		-11.23495471
	0.54866949	1.25797493	0.00000000		-10.19382466
	-0.89489563	1.20827070	0.00000000		37.80003372
	-0.78906023	1.20827070	0.00000000		42.40264946
	-0.84197793	1.15535300	0.00000000		-3.17851398
	-0.84197793	1.26118840	0.00000000		-2.47880602
	-1.60784569	0.00867526	0.00000000		-4.83413694
	-1.50201029	0.00867526	0.00000000		-6.02293217
	-1.55492799	-0.04424244	0.00000000		-6.55470099
	-1.55492799	0.06159296	0.00000000		-9.02318099
	-0.91316362	-1.19659568	0.00000000		-37.39281843
	-0.80732822	-1.19659568	0.00000000		-44.23002408
	-0.86024592	-1.24951338	0.00000000		17.22853486
	-0.86024592	-1.14367798	0.00000000		20.38016931
35	36565.0	# 273.5 nm,	(r2r1) = 1Lb_v4 state		
	-0.0433	-0.5365	0.00000000	1.0	# electr. mom.
	0.0	0.0	0.2174085006		# magnet. mom.
	2.59150928	0.04298365	0.00000000		-61.18835898
	0.53489436	-1.20761772	0.00000000		10.45333119
	1.23557636	-0.00671127	0.00000000		222.94695444
	0.54866949	1.20505723	0.00000000		-18.82280767
	-0.84197793	1.20827070	0.00000000		-196.76080732
	-1.55492799	0.00867526	0.00000000		69.65013368
	-0.86024592	-1.19659568	0.00000000		115.86495547
	2.53859158	0.04298365	0.00000000		37.48864229
	2.64442698	0.04298365	0.00000000		27.90717328
	2.59150928	-0.00993405	0.00000000		-2.07236915
	2.59150928	0.09590135	0.00000000		-1.25775955
	0.48197666	-1.20761772	0.00000000		-4.13581624
	0.58781206	-1.20761772	0.00000000		-11.82932234
	0.53489436	-1.26053542	0.00000000		2.61855314
	0.53489436	-1.15470002	0.00000000		3.85083647
	1.18265866	-0.00671127	0.00000000		-89.49967448
	1.28849406	-0.00671127	0.00000000		-100.62918680
	1.23557636	-0.05962897	0.00000000		-10.88093025
	1.23557636	0.04620643	0.00000000		-22.98891089
	0.49575179	1.20505723	0.00000000		36.66143687
	0.60158719	1.20505723	0.00000000		38.50408872
	0.54866949	1.15213953	0.00000000		-29.73958600
	0.54866949	1.25797493	0.00000000		-26.98365351
	-0.89489563	1.20827070	0.00000000		100.05891280
	-0.78906023	1.20827070	0.00000000		112.24230739
	-0.84197793	1.15535300	0.00000000		-8.41371348
	-0.84197793	1.26118840	0.00000000		-6.56154534
	-1.60784569	0.00867526	0.00000000		-12.79624485
	-1.50201029	0.00867526	0.00000000		-15.94305573
	-1.55492799	-0.04424244	0.00000000		-17.35067909
	-1.55492799	0.06159296	0.00000000		-23.88489085
	-0.91316362	-1.19659568	0.00000000		-98.98098996
	-0.80732822	-1.19659568	0.00000000		-117.07947550
	-0.86024592	-1.24951338	0.00000000		45.60494521
	-0.86024592	-1.14367798	0.00000000		53.94750701
35	37015.0	# 270.2 nm,	(r2r1) = 1Lb_v5 state		
	-0.0173	-0.2146	0.00000000	1.0	# electr. mom.
	0.0	0.0	0.2174085006		# magnet. mom.
	2.59150928	0.04298365	0.00000000		-24.47534359
	0.53489436	-1.20761772	0.00000000		4.18133247
	1.23557636	-0.00671127	0.00000000		89.17878178
	0.54866949	1.20505723	0.00000000		-7.52912307
	-0.84197793	1.20827070	0.00000000		-78.70432293
	-1.55492799	0.00867526	0.00000000		27.86005347
	-0.86024592	-1.19659568	0.00000000		46.34598219
	2.53859158	0.04298365	0.00000000		14.99545691
	2.64442698	0.04298365	0.00000000		11.16286931

	2.59150928	-0.00993405	0.00000000	-0.82894766
	2.59150928	0.09590135	0.00000000	-0.50310382
	0.48197666	-1.20761772	0.00000000	-1.65432650
	0.58781206	-1.20761772	0.00000000	-4.73172894
	0.53489436	-1.26053542	0.00000000	1.04742126
	0.53489436	-1.15470002	0.00000000	1.54033459
	1.18265866	-0.00671127	0.00000000	-35.79986979
	1.28849406	-0.00671127	0.00000000	-40.25167472
	1.23557636	-0.05962897	0.00000000	-4.35237210
	1.23557636	0.04620643	0.00000000	-9.19556436
	0.49575179	1.20505723	0.00000000	14.66457475
	0.60158719	1.20505723	0.00000000	15.40163549
	0.54866949	1.15213953	0.00000000	-11.89583440
	0.54866949	1.25797493	0.00000000	-10.79346140
	-0.89489563	1.20827070	0.00000000	40.02356512
	-0.78906023	1.20827070	0.00000000	44.89692296
	-0.84197793	1.15535300	0.00000000	-3.36548539
	-0.84197793	1.26118840	0.00000000	-2.62461813
	-1.60784569	0.00867526	0.00000000	-5.11849794
	-1.50201029	0.00867526	0.00000000	-6.37722229
	-1.55492799	-0.04424244	0.00000000	-6.94027164
	-1.55492799	0.06159296	0.00000000	-9.55395634
	-0.91316362	-1.19659568	0.00000000	-39.59239598
	-0.80732822	-1.19659568	0.00000000	-46.83179020
	-0.86024592	-1.24951338	0.00000000	18.24197808
	-0.86024592	-1.14367798	0.00000000	21.57900280
35	37365.0	# 267.6 nm,	(r2r1) = 1Lb_v6 state	
	-0.0270	-0.3338	0.00000000 1.0	# electr. mom.
	0.0	0.0	0.2174085006	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-38.07275670
	0.53489436	-1.20761772	0.00000000	6.50429496
	1.23557636	-0.00671127	0.00000000	138.72254943
	0.54866949	1.20505723	0.00000000	-11.71196922
	-0.84197793	1.20827070	0.00000000	-122.42894677
	-1.55492799	0.00867526	0.00000000	43.33786096
	-0.86024592	-1.19659568	0.00000000	72.09375007
	2.53859158	0.04298365	0.00000000	23.32626631
	2.64442698	0.04298365	0.00000000	17.36446337
	2.59150928	-0.00993405	0.00000000	-1.28947414
	2.59150928	0.09590135	0.00000000	-0.78260594
	0.48197666	-1.20761772	0.00000000	-2.57339677
	0.58781206	-1.20761772	0.00000000	-7.36046723
	0.53489436	-1.26053542	0.00000000	1.62932195
	0.53489436	-1.15470002	0.00000000	2.39607602
	1.18265866	-0.00671127	0.00000000	-55.68868634
	1.28849406	-0.00671127	0.00000000	-62.61371623
	1.23557636	-0.05962897	0.00000000	-6.77035660
	1.23557636	0.04620643	0.00000000	-14.30421122
	0.49575179	1.20505723	0.00000000	22.81156072
	0.60158719	1.20505723	0.00000000	23.95809965
	0.54866949	1.15213953	0.00000000	-18.50463129
	0.54866949	1.25797493	0.00000000	-16.78982885
	-0.89489563	1.20827070	0.00000000	62.25887907
	-0.78906023	1.20827070	0.00000000	69.83965793
	-0.84197793	1.15535300	0.00000000	-5.23519950
	-0.84197793	1.26118840	0.00000000	-4.08273932
	-1.60784569	0.00867526	0.00000000	-7.96210790
	-1.50201029	0.00867526	0.00000000	-9.92012357
	-1.55492799	-0.04424244	0.00000000	-10.79597810
	-1.55492799	0.06159296	0.00000000	-14.86170986
	-0.91316362	-1.19659568	0.00000000	-61.58817153
	-0.80732822	-1.19659568	0.00000000	-72.84945142
	-0.86024592	-1.24951338	0.00000000	28.37641035
	-0.86024592	-1.14367798	0.00000000	33.56733769
35	37815.0	# 264.5 nm,	(r2r1) = 1Lb_v7 state	
	-0.0135	-0.1669	0.00000000 1.0	# electr. mom.
	0.0	0.0	0.2174085006	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-19.03637835
	0.53489436	-1.20761772	0.00000000	3.25214748
	1.23557636	-0.00671127	0.00000000	69.36127471
	0.54866949	1.20505723	0.00000000	-5.85598461
	-0.84197793	1.20827070	0.00000000	-61.21447339
	-1.55492799	0.00867526	0.00000000	21.66893048
	-0.86024592	-1.19659568	0.00000000	36.04687504
	2.53859158	0.04298365	0.00000000	11.66313316
	2.64442698	0.04298365	0.00000000	8.68223169
	2.59150928	-0.00993405	0.00000000	-0.64473707
	2.59150928	0.09590135	0.00000000	-0.39130297
	0.48197666	-1.20761772	0.00000000	-1.28669839
	0.58781206	-1.20761772	0.00000000	-3.68023362
	0.53489436	-1.26053542	0.00000000	0.81466098
	0.53489436	-1.15470002	0.00000000	1.19803801
	1.18265866	-0.00671127	0.00000000	-27.84434317
	1.28849406	-0.00671127	0.00000000	-31.30685811
	1.23557636	-0.05962897	0.00000000	-3.38517830
	1.23557636	0.04620643	0.00000000	-7.15210561
	0.49575179	1.20505723	0.00000000	11.40578036

	0.60158719	1.20505723	0.00000000	11.97904982
	0.54866949	1.15213953	0.00000000	-9.25231564
	0.54866949	1.25797493	0.00000000	-8.39491442
	-0.89489563	1.20827070	0.00000000	31.12943954
	-0.78906023	1.20827070	0.00000000	34.91982897
	-0.84197793	1.15535300	0.00000000	-2.61759975
	-0.84197793	1.26118840	0.00000000	-2.04136966
	-1.60784569	0.00867526	0.00000000	-3.98105395
	-1.50201029	0.00867526	0.00000000	-4.96006178
	-1.55492799	-0.04424244	0.00000000	-5.39798905
	-1.55492799	0.06159296	0.00000000	-7.43085493
	-0.91316362	-1.19659568	0.00000000	-30.79408577
	-0.80732822	-1.19659568	0.00000000	-36.42472571
	-0.86024592	-1.24951338	0.00000000	14.18820518
	-0.86024592	-1.14367798	0.00000000	16.78366885
35	38165.0	# 262.0 nm, (r2r1) = 1Lb_v8 state		
	-0.0135	-0.1669	0.00000000 1.0	# electr. mom.
	0.0	0.0	0.2174085006	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-19.03637835
	0.53489436	-1.20761772	0.00000000	3.25214748
	1.23557636	-0.00671127	0.00000000	69.36127471
	0.54866949	1.20505723	0.00000000	-5.85598461
	-0.84197793	1.20827070	0.00000000	-61.21447339
	-1.55492799	0.00867526	0.00000000	21.66893048
	-0.86024592	-1.19659568	0.00000000	36.04687504
	2.53859158	0.04298365	0.00000000	11.66313316
	2.64442698	0.04298365	0.00000000	8.68223169
	2.59150928	-0.00993405	0.00000000	-0.64473707
	2.59150928	0.09590135	0.00000000	-0.39130297
	0.48197666	-1.20761772	0.00000000	-1.28669839
	0.58781206	-1.20761772	0.00000000	-3.68023362
	0.53489436	-1.26053542	0.00000000	0.81466098
	0.53489436	-1.15470002	0.00000000	1.19803801
	1.18265866	-0.00671127	0.00000000	-27.84434317
	1.28849406	-0.00671127	0.00000000	-31.30685811
	1.23557636	-0.05962897	0.00000000	-3.38517830
	1.23557636	0.04620643	0.00000000	-7.15210561
	0.49575179	1.20505723	0.00000000	11.40578036
	0.60158719	1.20505723	0.00000000	11.97904982
	0.54866949	1.15213953	0.00000000	-9.25231564
	0.54866949	1.25797493	0.00000000	-8.39491442
	-0.89489563	1.20827070	0.00000000	31.12943954
	-0.78906023	1.20827070	0.00000000	34.91982897
	-0.84197793	1.15535300	0.00000000	-2.61759975
	-0.84197793	1.26118840	0.00000000	-2.04136966
	-1.60784569	0.00867526	0.00000000	-3.98105395
	-1.50201029	0.00867526	0.00000000	-4.96006178
	-1.55492799	-0.04424244	0.00000000	-5.39798905
	-1.55492799	0.06159296	0.00000000	-7.43085493
	-0.91316362	-1.19659568	0.00000000	-30.79408577
	-0.80732822	-1.19659568	0.00000000	-36.42472571
	-0.86024592	-1.24951338	0.00000000	14.18820518
	-0.86024592	-1.14367798	0.00000000	16.78366885
35	46205.0	# 216.4 nm, (r3r1) = 1La state		
	1.38590213	-0.15821049	0.00000000 1.0	# electr. mom.
	0.0	0.0	-0.7184570540E-01	# magnet. mom.
	2.59150928	0.04298365	0.00000000	144.12823848
	0.53489436	-1.20761772	0.00000000	-475.87423699
	1.23557636	-0.00671127	0.00000000	252.26197435
	0.54866949	1.20505723	0.00000000	-595.67921246
	-0.84197793	1.20827070	0.00000000	602.25412118
	-1.55492799	0.00867526	0.00000000	-825.48364584
	-0.86024592	-1.19659568	0.00000000	617.81960045
	2.53859158	0.04298365	0.00000000	-43.97312472
	2.64442698	0.04298365	0.00000000	-40.55833805
	2.59150928	-0.00993405	0.00000000	-29.88132038
	2.59150928	0.09590135	0.00000000	-29.27540683
	0.48197666	-1.20761772	0.00000000	126.59486448
	0.58781206	-1.20761772	0.00000000	114.43397731
	0.53489436	-1.26053542	0.00000000	114.43433621
	0.53489436	-1.15470002	0.00000000	120.25713638
	1.18265866	-0.00671127	0.00000000	-149.60946451
	1.28849406	-0.00671127	0.00000000	-157.85386272
	1.23557636	-0.05962897	0.00000000	29.56507253
	1.23557636	0.04620643	0.00000000	26.87073240
	0.49575179	1.20505723	0.00000000	180.69741696
	0.60158719	1.20505723	0.00000000	163.62554093
	0.54866949	1.15213953	0.00000000	128.67488578
	0.54866949	1.25797493	0.00000000	122.86467917
	-0.89489563	1.20827070	0.00000000	-183.39273038
	-0.78906023	1.20827070	0.00000000	-199.82699741
	-0.84197793	1.15535300	0.00000000	-115.52322922
	-0.84197793	1.26118840	0.00000000	-104.78518138
	-1.60784569	0.00867526	0.00000000	168.15153672
	-1.50201029	0.00867526	0.00000000	187.45507296
	-1.55492799	-0.04424244	0.00000000	235.60880923
	-1.55492799	0.06159296	0.00000000	234.81516322

	-0.91316362	-1.19659568	0.00000000	-181.81291430
	-0.80732822	-1.19659568	0.00000000	-195.24548246
	-0.86024592	-1.24951338	0.00000000	-114.95294650
	-0.86024592	-1.14367798	0.00000000	-126.78506453
35	50932.0	# 196.3 nm, (r6r1) = 1Ba state		
	5.79562640	0.00147495	0.00000000 1.0	# electr. mom.
	0.0	0.0	-0.5751422283E-02	# magnet. mom.
	2.59150928	0.04298365	0.00000000	213.45391680
	0.53489436	-1.20761772	0.00000000	739.07449968
	1.23557636	-0.00671127	0.00000000	-549.20288266
	0.54866949	1.20505723	0.00000000	681.36019589
	-0.84197793	1.20827070	0.00000000	-726.31340002
	-1.55492799	0.00867526	0.00000000	281.58568114
	-0.86024592	-1.19659568	0.00000000	-632.39787811
	2.53859158	0.04298365	0.00000000	-105.32235994
	2.64442698	0.04298365	0.00000000	-79.49050320
	2.59150928	-0.00993405	0.00000000	-15.80597947
	2.59150928	0.09590135	0.00000000	-15.36451133
	0.48197666	-1.20761772	0.00000000	-292.48022333
	0.58781206	-1.20761772	0.00000000	-255.02304475
	0.53489436	-1.26053542	0.00000000	-93.94156522
	0.53489436	-1.15470002	0.00000000	-99.35106926
	1.18265866	-0.00671127	0.00000000	264.07677082
	1.28849406	-0.00671127	0.00000000	303.98844029
	1.23557636	-0.05962897	0.00000000	-8.66918616
	1.23557636	0.04620643	0.00000000	-6.16743475
	0.49575179	1.20505723	0.00000000	-271.05485486
	0.60158719	1.20505723	0.00000000	-229.72177104
	0.54866949	1.15213953	0.00000000	-93.60494434
	0.54866949	1.25797493	0.00000000	-89.10447394
	-0.89489563	1.20827070	0.00000000	210.34572360
	-0.78906023	1.20827070	0.00000000	243.18556618
	-0.84197793	1.15535300	0.00000000	143.23645426
	-0.84197793	1.26118840	0.00000000	132.11312222
	-1.60784569	0.00867526	0.00000000	-233.59730827
	-1.50201029	0.00867526	0.00000000	-253.94863267
	-1.55492799	-0.04424244	0.00000000	100.99148270
	-1.55492799	0.06159296	0.00000000	102.47223461
	-0.91316362	-1.19659568	0.00000000	157.41553368
	-0.80732822	-1.19659568	0.00000000	183.71561443
	-0.86024592	-1.24951338	0.00000000	140.43734698
	-0.86024592	-1.14367798	0.00000000	153.10944000
35	51963.0	# 192.4 nm, (r7r1) = 1Bb state		
	-0.02200506	-5.32789864	0.00000000 1.0	# electr. mom.
	0.0	0.0	-0.3298715429	# magnet. mom.
	2.59150928	0.04298365	0.00000000	2.65625030
	0.53489436	-1.20761772	0.00000000	1182.00291389
	1.23557636	-0.00671127	0.00000000	-71.65960176
	0.54866949	1.20505723	0.00000000	-1100.14570603
	-0.84197793	1.20827070	0.00000000	-4.15231637
	-1.55492799	0.00867526	0.00000000	-0.77563368
	-0.86024592	-1.19659568	0.00000000	-28.92839026
	2.53859158	0.04298365	0.00000000	-6.07539317
	2.64442698	0.04298365	0.00000000	-4.36380470
	2.59150928	-0.00993405	0.00000000	3.81894864
	2.59150928	0.09590135	0.00000000	3.79502563
	0.48197666	-1.20761772	0.00000000	-434.07759302
	0.58781206	-1.20761772	0.00000000	-379.16869637
	0.53489436	-1.26053542	0.00000000	-179.08625645
	0.53489436	-1.15470002	0.00000000	-193.17141168
	1.18265866	-0.00671127	0.00000000	25.29542242
	1.28849406	-0.00671127	0.00000000	27.15391786
	1.23557636	-0.05962897	0.00000000	17.06864054
	1.23557636	0.04620643	0.00000000	2.45351774
	0.49575179	1.20505723	0.00000000	391.77335458
	0.60158719	1.20505723	0.00000000	341.08733506
	0.54866949	1.15213953	0.00000000	191.53128336
	0.54866949	1.25797493	0.00000000	178.72663325
	-0.89489563	1.20827070	0.00000000	-80.54966813
	-0.78906023	1.20827070	0.00000000	-126.77961840
	-0.84197793	1.15535300	0.00000000	107.70560539
	-0.84197793	1.26118840	0.00000000	99.77245718
	-1.60784569	0.00867526	0.00000000	0.72099302
	-1.50201029	0.00867526	0.00000000	1.63411162
	-1.55492799	-0.04424244	0.00000000	-0.48999677
	-1.55492799	0.06159296	0.00000000	-0.93804053
	-0.91316362	-1.19659568	0.00000000	104.61460656
	-0.80732822	-1.19659568	0.00000000	156.91243762
	-0.86024592	-1.24951338	0.00000000	-108.72151056
	-0.86024592	-1.14367798	0.00000000	-119.63981669
&TRANSITION 2->...				
0	0.0	# (r2r2) 30		
	0.0	0.0	0.0 1.0	# electr. mom.
		0.0	0.0	0.0 # magnet. mom.
0	0.0	# (r2r2) 30		
	0.0	0.0	0.0 1.0	# electr. mom.
		0.0	0.0	0.0 # magnet. mom.

```

0  0.0  # (r2r2) 30
    0.0  0.0  0.0 1.0      # electr. mom.
        0.0  0.0  0.0 # magnet. mom.
0  0.0  # (r2r2) 30
    0.0  0.0  0.0 1.0      # electr. mom.
        0.0  0.0  0.0 # magnet. mom.
0  0.0  # (r2r2) 30
    0.0  0.0  0.0 1.0      # electr. mom.
        0.0  0.0  0.0 # magnet. mom.
0  0.0  # (r2r2) 30
    0.0  0.0  0.0 1.0      # electr. mom.
        0.0  0.0  0.0 # magnet. mom.
0  0.0  # (r2r2) 30
    0.0  0.0  0.0 1.0      # electr. mom.
        0.0  0.0  0.0 # magnet. mom.
35  9713.0  # 1029.5 nm, (r3r2)
    -0.01768  0.135252  0.00000000 1.0  # electr. mom.
        0.0  0.0  -1.983345155  # magnet. mom.
    2.59150928  0.04298365  0.00000000  -4.85360239
    0.53489436  -1.20761772  0.00000000  -11.00452971
    1.23557636  -0.00671127  0.00000000  77.09698564
    0.54866949  1.20505723  0.00000000  -20.09317347
    -0.84197793  1.20827070  0.00000000  9.66162962
    -1.55492799  0.00867526  0.00000000  -13.43125865
    -0.86024592  -1.19659568  0.00000000  -11.50863096
    2.53859158  0.04298365  0.00000000  4.05003468
    2.64442698  0.04298365  0.00000000  2.85195958
    2.59150928  -0.00993405  0.00000000  -0.94218716
    2.59150928  0.09590135  0.00000000  -0.99051102
    0.48197666  -1.20761772  0.00000000  12.24828699
    0.58781206  -1.20761772  0.00000000  12.02012705
    0.53489436  -1.26053542  0.00000000  -5.82234921
    0.53489436  -1.15470002  0.00000000  -7.09408108
    1.18265866  -0.00671127  0.00000000  -13.86051024
    1.28849406  -0.00671127  0.00000000  -14.89464972
    1.23557636  -0.05962897  0.00000000  -26.32939905
    1.23557636  0.04620643  0.00000000  -22.21766644
    0.49575179  1.20505723  0.00000000  11.24017590
    0.60158719  1.20505723  0.00000000  8.40399294
    0.54866949  1.15213953  0.00000000  0.42305151
    0.54866949  1.25797493  0.00000000  -0.00372026
    -0.89489563  1.20827070  0.00000000  8.21694874
    -0.78906023  1.20827070  0.00000000  10.05044362
    -0.84197793  1.15535300  0.00000000  -14.74029810
    -0.84197793  1.26118840  0.00000000  -13.21223370
    -1.60784569  0.00867526  0.00000000  5.44335505
    -1.50201029  0.00867526  0.00000000  5.97103838
    -1.55492799  -0.04424244  0.00000000  1.03368031
    -1.55492799  0.06159296  0.00000000  1.03511316
    -0.91316362  -1.19659568  0.00000000  -11.62328834
    -0.80732822  -1.19659568  0.00000000  -16.12072902
    -0.86024592  -1.24951338  0.00000000  18.56345619
    -0.86024592  -1.14367798  0.00000000  20.43253920
35  14440.0  # 692.5 nm, (r6r2) 35
    -0.04534  0.108732  0.00000000 1.0  # electr. mom.
        0.0  0.0  0.3558985919  # magnet. mom.
    2.59150928  0.04298365  0.00000000  -18.23989383
    0.53489436  -1.20761772  0.00000000  -89.47644813
    1.23557636  -0.00671127  0.00000000  5.91956085
    0.54866949  1.20505723  0.00000000  134.09401849
    -0.84197793  1.20827070  0.00000000  -145.78611708
    -1.55492799  0.00867526  0.00000000  12.71572084
    -0.86024592  -1.19659568  0.00000000  98.98988402
    2.53859158  0.04298365  0.00000000  7.36736889
    2.64442698  0.04298365  0.00000000  6.24840171
    2.59150928  -0.00993405  0.00000000  2.11100171
    2.59150928  0.09590135  0.00000000  2.56319092
    0.48197666  -1.20761772  0.00000000  -9.89757917
    0.58781206  -1.20761772  0.00000000  -2.00164830
    0.53489436  -1.26053542  0.00000000  48.48890290
    0.53489436  -1.15470002  0.00000000  51.88274889
    1.18265866  -0.00671127  0.00000000  19.79442409
    1.28849406  -0.00671127  0.00000000  18.31380281
    1.23557636  -0.05962897  0.00000000  -19.98165547
    1.23557636  0.04620643  0.00000000  -24.03436933
    0.49575179  1.20505723  0.00000000  -5.63816505
    0.60158719  1.20505723  0.00000000  -8.42603551
    0.54866949  1.15213953  0.00000000  -62.57342777
    0.54866949  1.25797493  0.00000000  -57.18087468
    -0.89489563  1.20827070  0.00000000  48.66119225
    -0.78906023  1.20827070  0.00000000  51.83447259
    -0.84197793  1.15535300  0.00000000  22.41215614
    -0.84197793  1.26118840  0.00000000  22.51281490
    -1.60784569  0.00867526  0.00000000  8.42392831
    -1.50201029  0.00867526  0.00000000  11.44986119
    -1.55492799  -0.04424244  0.00000000  -16.15478140
    -1.55492799  0.06159296  0.00000000  -16.11074303

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	-0.91316362	-1.19659568	0.00000000	9.91211792
	-0.80732822	-1.19659568	0.00000000	20.13056443
	-0.86024592	-1.24951338	0.00000000	-60.06332223
	-0.86024592	-1.14367798	0.00000000	-68.26107281
35	15471.0	# 646.4 nm, (r7r2) 35		
	-0.19729	0.04654	0.00000000 1.0	# electr. mom.
	0.0	0.0	0.2038478162E-01	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-10.57594085
	0.53489436	-1.20761772	0.00000000	110.37822619
	1.23557636	-0.00671127	0.00000000	-58.62712949
	0.54866949	1.20505723	0.00000000	101.68250916
	-0.84197793	1.20827070	0.00000000	91.12932661
	-1.55492799	0.00867526	0.00000000	-133.02099900
	-0.86024592	-1.19659568	0.00000000	81.19281910
	2.53859158	0.04298365	0.00000000	6.70195282
	2.64442698	0.04298365	0.00000000	5.61736863
	2.59150928	-0.00993405	0.00000000	-1.32770197
	2.59150928	0.09590135	0.00000000	-0.50326167
	0.48197666	-1.20761772	0.00000000	-57.66990396
	0.58781206	-1.20761772	0.00000000	-52.96958964
	0.53489436	-1.26053542	0.00000000	-2.10295211
	0.53489436	-1.15470002	0.00000000	2.68688864
	1.18265866	-0.00671127	0.00000000	-8.97651938
	1.28849406	-0.00671127	0.00000000	-2.94341030
	1.23557636	-0.05962897	0.00000000	35.54947002
	1.23557636	0.04620643	0.00000000	34.01338889
	0.49575179	1.20505723	0.00000000	-58.47193480
	0.60158719	1.20505723	0.00000000	-52.93238838
	0.54866949	1.15213953	0.00000000	8.20033848
	0.54866949	1.25797493	0.00000000	1.94620753
	-0.89489563	1.20827070	0.00000000	-32.58403172
	-0.78906023	1.20827070	0.00000000	-32.16005825
	-0.84197793	1.15535300	0.00000000	-12.55852379
	-0.84197793	1.26118840	0.00000000	-13.37429489
	-1.60784569	0.00867526	0.00000000	17.72808249
	-1.50201029	0.00867526	0.00000000	15.32741910
	-1.55492799	-0.04424244	0.00000000	49.64481737
	-1.55492799	0.06159296	0.00000000	49.74115102
	-0.91316362	-1.19659568	0.00000000	-30.47929173
	-0.80732822	-1.19659568	0.00000000	-30.30296039
	-0.86024592	-1.24951338	0.00000000	-10.67265981
	-0.86024592	-1.14367798	0.00000000	-9.28641395
&TRANSITION 3->...				
0	0.0	# (r2r2) 30		
	0.0	0.0	0.0 1.0	# electr. mom.
	0.0	0.0	0.0	0.0 # magnet. mom.
0	0.0	# (r2r2) 30		
	0.0	0.0	0.0 1.0	# electr. mom.
	0.0	0.0	0.0	0.0 # magnet. mom.
0	0.0	# (r2r2) 30		
	0.0	0.0	0.0 1.0	# electr. mom.
	0.0	0.0	0.0	0.0 # magnet. mom.
0	0.0	# (r2r2) 30		
	0.0	0.0	0.0 1.0	# electr. mom.
	0.0	0.0	0.0	0.0 # magnet. mom.
0	0.0	# (r2r2) 30		
	0.0	0.0	0.0 1.0	# electr. mom.
	0.0	0.0	0.0	0.0 # magnet. mom.
0	0.0	# (r2r2) 30		
	0.0	0.0	0.0 1.0	# electr. mom.
	0.0	0.0	0.0	0.0 # magnet. mom.
35	9713.0	# 1029.5 nm, (r3r2)		
	-0.01972	0.150858	0.00000000 1.0	# electr. mom.
	0.0	0.0	-1.983345155	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-5.41363344
	0.53489436	-1.20761772	0.00000000	-12.27428314
	1.23557636	-0.00671127	0.00000000	85.99279167
	0.54866949	1.20505723	0.00000000	-22.41161657
	-0.84197793	1.20827070	0.00000000	10.77643304
	-1.55492799	0.00867526	0.00000000	-14.98101926
	-0.86024592	-1.19659568	0.00000000	-12.83654991
	2.53859158	0.04298365	0.00000000	4.51734638
	2.64442698	0.04298365	0.00000000	3.18103184
	2.59150928	-0.00993405	0.00000000	-1.05090106
	2.59150928	0.09590135	0.00000000	-1.10480075
	0.48197666	-1.20761772	0.00000000	13.66155087
	0.58781206	-1.20761772	0.00000000	13.40706479
	0.53489436	-1.26053542	0.00000000	-6.49415874
	0.53489436	-1.15470002	0.00000000	-7.91262890
	1.18265866	-0.00671127	0.00000000	-15.45979989
	1.28849406	-0.00671127	0.00000000	-16.61326315
	1.23557636	-0.05962897	0.00000000	-29.36740663
	1.23557636	0.04620643	0.00000000	-24.78124334
	0.49575179	1.20505723	0.00000000	12.53711927
	0.60158719	1.20505723	0.00000000	9.37368443
	0.54866949	1.15213953	0.00000000	0.47186514
	0.54866949	1.25797493	0.00000000	-0.00414952

-0.89489563	1.20827070	0.00000000	9.16505821
-0.78906023	1.20827070	0.00000000	11.21011019
-0.84197793	1.15535300	0.00000000	-16.44110173
-0.84197793	1.26118840	0.00000000	-14.73672220
-1.60784569	0.00867526	0.00000000	6.07143448
-1.50201029	0.00867526	0.00000000	6.66000434
-1.55492799	-0.04424244	0.00000000	1.15295112
-1.55492799	0.06159296	0.00000000	1.15454930
-0.91316362	-1.19659568	0.00000000	-12.96443699
-0.80732822	-1.19659568	0.00000000	-17.98081314
-0.86024592	-1.24951338	0.00000000	20.70539345
-0.86024592	-1.14367798	0.00000000	22.79013987
35 14440.0	# 692.5 nm, (r6r2) 35		
-0.05058	0.121278	0.00000000 1.0	# electr. mom.
0.0	0.0	0.3558985919	# magnet. mom.
2.59150928	0.04298365	0.00000000	-20.34449696
0.53489436	-1.20761772	0.00000000	-99.80065368
1.23557636	-0.00671127	0.00000000	6.60258710
0.54866949	1.20505723	0.00000000	149.56640524
-0.84197793	1.20827070	0.00000000	-162.60759213
-1.55492799	0.00867526	0.00000000	14.18291940
-0.86024592	-1.19659568	0.00000000	110.41179371
2.53859158	0.04298365	0.00000000	8.21744992
2.64442698	0.04298365	0.00000000	6.96937114
2.59150928	-0.00993405	0.00000000	2.35457883
2.59150928	0.09590135	0.00000000	2.85894372
0.48197666	-1.20761772	0.00000000	-11.03960754
0.58781206	-1.20761772	0.00000000	-2.23260772
0.53489436	-1.26053542	0.00000000	54.08377631
0.53489436	-1.15470002	0.00000000	57.86921992
1.18265866	-0.00671127	0.00000000	22.07839610
1.28849406	-0.00671127	0.00000000	20.42693390
1.23557636	-0.05962897	0.00000000	-22.28723110
1.23557636	0.04620643	0.00000000	-26.80756579
0.49575179	1.20505723	0.00000000	-6.28872256
0.60158719	1.20505723	0.00000000	-9.39827038
0.54866949	1.15213953	0.00000000	-69.79343867
0.54866949	1.25797493	0.00000000	-63.77866791
-0.89489563	1.20827070	0.00000000	54.27594520
-0.78906023	1.20827070	0.00000000	57.81537327
-0.84197793	1.15535300	0.00000000	24.99817415
-0.84197793	1.26118840	0.00000000	25.11044738
-1.60784569	0.00867526	0.00000000	9.39592004
-1.50201029	0.00867526	0.00000000	12.77099902
-1.55492799	-0.04424244	0.00000000	-18.01879464
-1.55492799	0.06159296	0.00000000	-17.96967492
-0.91316362	-1.19659568	0.00000000	11.05582383
-0.80732822	-1.19659568	0.00000000	22.45332186
-0.86024592	-1.24951338	0.00000000	-66.99370556
-0.86024592	-1.14367798	0.00000000	-76.13735044
35 15471.0	# 646.4 nm, (r7r2) 35		
-0.22005	0.05191	0.00000000 1.0	# electr. mom.
0.0	0.0	0.2038478162E-01	# magnet. mom.
2.59150928	0.04298365	0.00000000	-11.79624172
0.53489436	-1.20761772	0.00000000	123.11417537
1.23557636	-0.00671127	0.00000000	-65.39179828
0.54866949	1.20505723	0.00000000	113.41510637
-0.84197793	1.20827070	0.00000000	101.64424891
-1.55492799	0.00867526	0.00000000	-148.36957581
-0.86024592	-1.19659568	0.00000000	90.56122131
2.53859158	0.04298365	0.00000000	7.47525506
2.64442698	0.04298365	0.00000000	6.26552655
2.59150928	-0.00993405	0.00000000	-1.48089835
2.59150928	0.09590135	0.00000000	-0.56133032
0.48197666	-1.20761772	0.00000000	-64.32412365
0.58781206	-1.20761772	0.00000000	-59.08146537
0.53489436	-1.26053542	0.00000000	-2.34560043
0.53489436	-1.15470002	0.00000000	2.99691425
1.18265866	-0.00671127	0.00000000	-10.01227161
1.28849406	-0.00671127	0.00000000	-3.28303456
1.23557636	-0.05962897	0.00000000	39.65133194
1.23557636	0.04620643	0.00000000	37.93801069
0.49575179	1.20505723	0.00000000	-65.21869651
0.60158719	1.20505723	0.00000000	-59.03997166
0.54866949	1.15213953	0.00000000	9.14653139
0.54866949	1.25797493	0.00000000	2.17076993
-0.89489563	1.20827070	0.00000000	-36.34372769
-0.78906023	1.20827070	0.00000000	-35.87083420
-0.84197793	1.15535300	0.00000000	-14.00758422
-0.84197793	1.26118840	0.00000000	-14.91748276
-1.60784569	0.00867526	0.00000000	19.77363047
-1.50201029	0.00867526	0.00000000	17.09596746
-1.55492799	-0.04424244	0.00000000	55.37306553
-1.55492799	0.06159296	0.00000000	55.48051460
-0.91316362	-1.19659568	0.00000000	-33.99613308
-0.80732822	-1.19659568	0.00000000	-33.79945582
-0.86024592	-1.24951338	0.00000000	-11.90412055

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-0.86024592 -1.14367798 0.00000000 -10.35792325
&TRANSITION 4->...
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 0.0 # magnet. mom.
0.0 0.0 0.0 0.0 # magnet. mom.
35 9713.0 # 1029.5 nm, (r3r2)
-0.00578 0.044217 0.00000000 1.0 # electr. mom.
0.0 0.0 -1.983345155 # magnet. mom.
2.59150928 0.04298365 0.00000000 -1.58675463
0.53489436 -1.20761772 0.00000000 -3.59763471
1.23557636 -0.00671127 0.00000000 25.20478377
0.54866949 1.20505723 0.00000000 -6.56892210
-0.84197793 1.20827070 0.00000000 3.15860968
-1.55492799 0.00867526 0.00000000 -4.39098840
-0.86024592 -1.19659568 0.00000000 -3.76243704
2.53859158 0.04298365 0.00000000 1.32404980
2.64442698 0.04298365 0.00000000 0.93237140
2.59150928 -0.00993405 0.00000000 -0.30802272
2.59150928 0.09590135 0.00000000 -0.32382091
0.48197666 -1.20761772 0.00000000 4.00424767
0.58781206 -1.20761772 0.00000000 3.92965692
0.53489436 -1.26053542 0.00000000 -1.90346032
0.53489436 -1.15470002 0.00000000 -2.31921882
1.18265866 -0.00671127 0.00000000 -4.53132066
1.28849406 -0.00671127 0.00000000 -4.86940472
1.23557636 -0.05962897 0.00000000 -8.60768815
1.23557636 0.04620643 0.00000000 -7.26346788
0.49575179 1.20505723 0.00000000 3.67467289
0.60158719 1.20505723 0.00000000 2.74745923
0.54866949 1.15213953 0.00000000 0.13830530
0.54866949 1.25797493 0.00000000 -0.00121624
-0.89489563 1.20827070 0.00000000 2.68631017
-0.78906023 1.20827070 0.00000000 3.28572195
-0.84197793 1.15535300 0.00000000 -4.81894361
-0.84197793 1.26118840 0.00000000 -4.31938409
-1.60784569 0.00867526 0.00000000 1.77955838
-1.50201029 0.00867526 0.00000000 1.95207024
-1.55492799 -0.04424244 0.00000000 0.33793395
-1.55492799 0.06159296 0.00000000 0.33840238
-0.91316362 -1.19659568 0.00000000 -3.79992119
-0.80732822 -1.19659568 0.00000000 -5.27023833
-0.86024592 -1.24951338 0.00000000 6.06882222
-0.86024592 -1.14367798 0.00000000 6.67986858
35 14440.0 # 692.5 nm, (r6r2) 35
-0.01482 0.035547 0.00000000 1.0 # electr. mom.
0.0 0.0 0.3558985919 # magnet. mom.
2.59150928 0.04298365 0.00000000 -5.96304221
0.53489436 -1.20761772 0.00000000 -29.25191574
1.23557636 -0.00671127 0.00000000 1.93524105
0.54866949 1.20505723 0.00000000 43.83842912
-0.84197793 1.20827070 0.00000000 -47.66084597
-1.55492799 0.00867526 0.00000000 4.15706258
-0.86024592 -1.19659568 0.00000000 32.36207747
2.53859158 0.04298365 0.00000000 2.40856291
2.64442698 0.04298365 0.00000000 2.04274671
2.59150928 -0.00993405 0.00000000 0.69013517
2.59150928 0.09590135 0.00000000 0.83796626
0.48197666 -1.20761772 0.00000000 -3.23574704
0.58781206 -1.20761772 0.00000000 -0.65438502
0.53489436 -1.26053542 0.00000000 15.85214133
0.53489436 -1.15470002 0.00000000 16.96166791
1.18265866 -0.00671127 0.00000000 6.47125403
1.28849406 -0.00671127 0.00000000 5.98720476
1.23557636 -0.05962897 0.00000000 -6.53246429
1.23557636 0.04620643 0.00000000 -7.85738997
0.49575179 1.20505723 0.00000000 -1.84324627
0.60158719 1.20505723 0.00000000 -2.75466546
0.54866949 1.15213953 0.00000000 -20.45669754
0.54866949 1.25797493 0.00000000 -18.69374749
-0.89489563 1.20827070 0.00000000 15.90846670
-0.78906023 1.20827070 0.00000000 16.94588527
-0.84197793 1.15535300 0.00000000 7.32705104
-0.84197793 1.26118840 0.00000000 7.35995872
-1.60784569 0.00867526 0.00000000 2.75397656
-1.50201029 0.00867526 0.00000000 3.74322385

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-1.55492799	-0.04424244	0.00000000	-5.28137084
-1.55492799	0.06159296	0.00000000	-5.26697368
-0.91316362	-1.19659568	0.00000000	3.24050009
-0.80732822	-1.19659568	0.00000000	6.58114606
-0.86024592	-1.24951338	0.00000000	-19.63608611
-0.86024592	-1.14367798	0.00000000	-22.31611996
35	15471.0	# 646.4 nm, (r7r2) 35	
-0.0645	0.015215	0.00000000 1.0	# electr. mom.
0.0	0.0	0.2038478162E-01	# magnet. mom.
2.59150928	0.04298365	0.00000000	-3.45751912
0.53489436	-1.20761772	0.00000000	36.08518933
1.23557636	-0.00671127	0.00000000	-19.16656156
0.54866949	1.20505723	0.00000000	33.24235876
-0.84197793	1.20827070	0.00000000	29.79227985
-1.55492799	0.00867526	0.00000000	-43.48763429
-0.86024592	-1.19659568	0.00000000	26.54380625
2.53859158	0.04298365	0.00000000	2.19102304
2.64442698	0.04298365	0.00000000	1.83644744
2.59150928	-0.00993405	0.00000000	-0.43405641
2.59150928	0.09590135	0.00000000	-0.16452785
0.48197666	-1.20761772	0.00000000	-18.85362245
0.58781206	-1.20761772	0.00000000	-17.31698123
0.53489436	-1.26053542	0.00000000	-0.68750357
0.53489436	-1.15470002	0.00000000	0.87840590
1.18265866	-0.00671127	0.00000000	-2.93463133
1.28849406	-0.00671127	0.00000000	-0.96226875
1.23557636	-0.05962897	0.00000000	11.62194212
1.23557636	0.04620643	0.00000000	11.11976175
0.49575179	1.20505723	0.00000000	-19.11582484
0.60158719	1.20505723	0.00000000	-17.30481928
0.54866949	1.15213953	0.00000000	2.68087989
0.54866949	1.25797493	0.00000000	0.63626015
-0.89489563	1.20827070	0.00000000	-10.65247191
-0.78906023	1.20827070	0.00000000	-10.51386520
-0.84197793	1.15535300	0.00000000	-4.10567124
-0.84197793	1.26118840	0.00000000	-4.37236564
-1.60784569	0.00867526	0.00000000	5.79571927
-1.50201029	0.00867526	0.00000000	5.01088701
-1.55492799	-0.04424244	0.00000000	16.23003645
-1.55492799	0.06159296	0.00000000	16.26153014
-0.91316362	-1.19659568	0.00000000	-9.96438384
-0.80732822	-1.19659568	0.00000000	-9.90673705
-0.86024592	-1.24951338	0.00000000	-3.48913878
-0.86024592	-1.14367798	0.00000000	-3.03594302
&TRANSITION 5->...			
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 # magnet. mom.	
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 # magnet. mom.	
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 # magnet. mom.	
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
0.0	0.0	0.0 # magnet. mom.	
35	9713.0	# 1029.5 nm, (r3r2)	
-0.0153	0.117045	0.00000000 1.0	# electr. mom.
0.0	0.0	-1.983345155	# magnet. mom.
2.59150928	0.04298365	0.00000000	-4.20023284
0.53489436	-1.20761772	0.00000000	-9.52315071
1.23557636	-0.00671127	0.00000000	66.71854526
0.54866949	1.20505723	0.00000000	-17.38832320
-0.84197793	1.20827070	0.00000000	8.36102563
-1.55492799	0.00867526	0.00000000	-11.62320460
-0.86024592	-1.19659568	0.00000000	-9.95939217
2.53859158	0.04298365	0.00000000	3.50483771
2.64442698	0.04298365	0.00000000	2.46804194
2.59150928	-0.00993405	0.00000000	-0.81535427
2.59150928	0.09590135	0.00000000	-0.85717300
0.48197666	-1.20761772	0.00000000	10.59947912
0.58781206	-1.20761772	0.00000000	10.40203302
0.53489436	-1.26053542	0.00000000	-5.03857143
0.53489436	-1.15470002	0.00000000	-6.13910863
1.18265866	-0.00671127	0.00000000	-11.99467233
1.28849406	-0.00671127	0.00000000	-12.88960072
1.23557636	-0.05962897	0.00000000	-22.78505687
1.23557636	0.04620643	0.00000000	-19.22682673
0.49575179	1.20505723	0.00000000	9.72707530
0.60158719	1.20505723	0.00000000	7.27268620
0.54866949	1.15213953	0.00000000	0.36610227
0.54866949	1.25797493	0.00000000	-0.00321946
-0.89489563	1.20827070	0.00000000	7.11082103
-0.78906023	1.20827070	0.00000000	8.69749929
-0.84197793	1.15535300	0.00000000	-12.75602720
-0.84197793	1.26118840	0.00000000	-11.43366378

-1.60784569	0.00867526	0.00000000	4.71059572
-1.50201029	0.00867526	0.00000000	5.16724475
-1.55492799	-0.04424244	0.00000000	0.89453104
-1.55492799	0.06159296	0.00000000	0.89577101
-0.91316362	-1.19659568	0.00000000	-10.05861491
-0.80732822	-1.19659568	0.00000000	-13.95063089
-0.86024592	-1.24951338	0.00000000	16.06452940
-0.86024592	-1.14367798	0.00000000	17.68200507
35	14440.0	# 692.5 nm, (r6r2) 35	
-0.03924	0.094095	0.00000000 1.0	# electr. mom.
0.0	0.0	0.3558985919	# magnet. mom.
2.59150928	0.04298365	0.00000000	-15.78452351
0.53489436	-1.20761772	0.00000000	-77.43154165
1.23557636	-0.00671127	0.00000000	5.12269689
0.54866949	1.20505723	0.00000000	116.04290062
-0.84197793	1.20827070	0.00000000	-126.16106286
-1.55492799	0.00867526	0.00000000	11.00398919
-0.86024592	-1.19659568	0.00000000	85.66432271
2.53859158	0.04298365	0.00000000	6.37560770
2.64442698	0.04298365	0.00000000	5.40727071
2.59150928	-0.00993405	0.00000000	1.82682840
2.59150928	0.09590135	0.00000000	2.21814599
0.48197666	-1.20761772	0.00000000	-8.56521275
0.58781206	-1.20761772	0.00000000	-1.73219565
0.53489436	-1.26053542	0.00000000	41.96155059
0.53489436	-1.15470002	0.00000000	44.89853270
1.18265866	-0.00671127	0.00000000	17.12979008
1.28849406	-0.00671127	0.00000000	15.84848320
1.23557636	-0.05962897	0.00000000	-17.29181723
1.23557636	0.04620643	0.00000000	-20.79897346
0.49575179	1.20505723	0.00000000	-4.87918130
0.60158719	1.20505723	0.00000000	-7.29176150
0.54866949	1.15213953	0.00000000	-54.15008172
0.54866949	1.25797493	0.00000000	-49.48344924
-0.89489563	1.20827070	0.00000000	42.11064714
-0.78906023	1.20827070	0.00000000	44.85675512
-0.84197793	1.15535300	0.00000000	19.39513512
-0.84197793	1.26118840	0.00000000	19.48224366
-1.60784569	0.00867526	0.00000000	7.28993796
-1.50201029	0.00867526	0.00000000	9.90853372
-1.55492799	-0.04424244	0.00000000	-13.98009929
-1.55492799	0.06159296	0.00000000	-13.94198916
-0.91316362	-1.19659568	0.00000000	8.57779435
-0.80732822	-1.19659568	0.00000000	17.42068076
-0.86024592	-1.24951338	0.00000000	-51.97787501
-0.86024592	-1.14367798	0.00000000	-59.07208224
35	15471.0	# 646.4 nm, (r7r2) 35	
-0.17073	0.040275	0.00000000 1.0	# electr. mom.
0.0	0.0	0.2038478162E-01	# magnet. mom.
2.59150928	0.04298365	0.00000000	-9.15225651
0.53489436	-1.20761772	0.00000000	95.51961882
1.23557636	-0.00671127	0.00000000	-50.73501591
0.54866949	1.20505723	0.00000000	87.99447908
-0.84197793	1.20827070	0.00000000	78.86191726
-1.55492799	0.00867526	0.00000000	-115.11432606
-0.86024592	-1.19659568	0.00000000	70.26301653
2.53859158	0.04298365	0.00000000	5.79976686
2.64442698	0.04298365	0.00000000	4.86118439
2.59150928	-0.00993405	0.00000000	-1.14897286
2.59150928	0.09590135	0.00000000	-0.43551491
0.48197666	-1.20761772	0.00000000	-49.90664766
0.58781206	-1.20761772	0.00000000	-45.83906796
0.53489436	-1.26053542	0.00000000	-1.81986240
0.53489436	-1.15470002	0.00000000	2.32519209
1.18265866	-0.00671127	0.00000000	-7.76814177
1.28849406	-0.00671127	0.00000000	-2.54718199
1.23557636	-0.05962897	0.00000000	30.76396444
1.23557636	0.04620643	0.00000000	29.43466346
0.49575179	1.20505723	0.00000000	-50.60071281
0.60158719	1.20505723	0.00000000	-45.80687456
0.54866949	1.15213953	0.00000000	7.09644677
0.54866949	1.25797493	0.00000000	1.68421805
-0.89489563	1.20827070	0.00000000	-28.19771976
-0.78906023	1.20827070	0.00000000	-27.83081964
-0.84197793	1.15535300	0.00000000	-10.86795328
-0.84197793	1.26118840	0.00000000	-11.57390904
-1.60784569	0.00867526	0.00000000	15.34160984
-1.50201029	0.00867526	0.00000000	13.26411269
-1.55492799	-0.04424244	0.00000000	42.96186119
-1.55492799	0.06159296	0.00000000	43.04522684
-0.91316362	-1.19659568	0.00000000	-26.37631015
-0.80732822	-1.19659568	0.00000000	-26.22371572
-0.86024592	-1.24951338	0.00000000	-9.23595560
-0.86024592	-1.14367798	0.00000000	-8.03631977
&TRANSITION 6->...			
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.

```

0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
0 0.0 # (r2r2) 30
0.0 0.0 0.0 1.0 # electr. mom.
0.0 0.0 0.0 # magnet. mom.
35 9713.0 # 1029.5 nm, (r3r2)
-0.00612 0.046818 0.00000000 1.0 # electr. mom.
0.0 0.0 -1.983345155 # magnet. mom.
2.59150928 0.04298365 0.00000000 -1.68009314
0.53489436 -1.20761772 0.00000000 -3.80926029
1.23557636 -0.00671127 0.00000000 26.68741811
0.54866949 1.20505723 0.00000000 -6.95532928
-0.84197793 1.20827070 0.00000000 3.34441025
-1.55492799 0.00867526 0.00000000 -4.64928184
-0.86024592 -1.19659568 0.00000000 -3.98375687
2.53859158 0.04298365 0.00000000 1.40193508
2.64442698 0.04298365 0.00000000 0.98721678
2.59150928 -0.00993405 0.00000000 -0.32614171
2.59150928 0.09590135 0.00000000 -0.34286920
0.48197666 -1.20761772 0.00000000 4.23979165
0.58781206 -1.20761772 0.00000000 4.16081321
0.53489436 -1.26053542 0.00000000 -2.01542857
0.53489436 -1.15470002 0.00000000 -2.45564345
1.18265866 -0.00671127 0.00000000 -4.79786893
1.28849406 -0.00671127 0.00000000 -5.15584029
1.23557636 -0.05962897 0.00000000 -9.11402275
1.23557636 0.04620643 0.00000000 -7.69073069
0.49575179 1.20505723 0.00000000 3.89083012
0.60158719 1.20505723 0.00000000 2.90907448
0.54866949 1.15213953 0.00000000 0.14644091
0.54866949 1.25797493 0.00000000 -0.00128778
-0.89489563 1.20827070 0.00000000 2.84432841
-0.78906023 1.20827070 0.00000000 3.47899971
-0.84197793 1.15535300 0.00000000 -5.10241088
-0.84197793 1.26118840 0.00000000 -4.57346551
-1.60784569 0.00867526 0.00000000 1.88423829
-1.50201029 0.00867526 0.00000000 2.06689790
-1.55492799 -0.04424244 0.00000000 0.35781242
-1.55492799 0.06159296 0.00000000 0.35830840
-0.91316362 -1.19659568 0.00000000 -4.02344596
-0.80732822 -1.19659568 0.00000000 -5.58025235
-0.86024592 -1.24951338 0.00000000 6.42581176
-0.86024592 -1.14367798 0.00000000 7.07280203
35 14440.0 # 692.5 nm, (r6r2) 35
-0.0157 0.037638 0.00000000 1.0 # electr. mom.
0.0 0.0 0.3558985919 # magnet. mom.
2.59150928 0.04298365 0.00000000 -6.31380940
0.53489436 -1.20761772 0.00000000 -30.97261666
1.23557636 -0.00671127 0.00000000 2.04907875
0.54866949 1.20505723 0.00000000 46.41716025
-0.84197793 1.20827070 0.00000000 -50.46442514
-1.55492799 0.00867526 0.00000000 4.40159568
-0.86024592 -1.19659568 0.00000000 34.26572908
2.53859158 0.04298365 0.00000000 2.55024308
2.64442698 0.04298365 0.00000000 2.16290829
2.59150928 -0.00993405 0.00000000 0.73073136
2.59150928 0.09590135 0.00000000 0.88725840
0.48197666 -1.20761772 0.00000000 -3.42608510
0.58781206 -1.20761772 0.00000000 -0.69287826
0.53489436 -1.26053542 0.00000000 16.78462023
0.53489436 -1.15470002 0.00000000 17.95941308
1.18265866 -0.00671127 0.00000000 6.85191603
1.28849406 -0.00671127 0.00000000 6.33939328
1.23557636 -0.05962897 0.00000000 -6.91672689
1.23557636 0.04620643 0.00000000 -8.31958938
0.49575179 1.20505723 0.00000000 -1.95167252
0.60158719 1.20505723 0.00000000 -2.91670460
0.54866949 1.15213953 0.00000000 -21.66003269
0.54866949 1.25797493 0.00000000 -19.79337970
-0.89489563 1.20827070 0.00000000 16.84425885
-0.78906023 1.20827070 0.00000000 17.94270205
-0.84197793 1.15535300 0.00000000 7.75805405
-0.84197793 1.26118840 0.00000000 7.79289746
-1.60784569 0.00867526 0.00000000 2.91597519
-1.50201029 0.00867526 0.00000000 3.96341349
-1.55492799 -0.04424244 0.00000000 -5.59203972
-1.55492799 0.06159296 0.00000000 -5.57679566
-0.91316362 -1.19659568 0.00000000 3.43111774
-0.80732822 -1.19659568 0.00000000 6.96827230
-0.86024592 -1.24951338 0.00000000 -20.79115000
-0.86024592 -1.14367798 0.00000000 -23.62883289
35 15471.0 # 646.4 nm, (r7r2) 35
-0.06829 0.01611 0.00000000 1.0 # electr. mom.
0.0 0.0 0.2038478162E-01 # magnet. mom.
2.59150928 0.04298365 0.00000000 -3.66090260

```

0.53489436	-1.20761772	0.00000000	38.20784753
1.23557636	-0.00671127	0.00000000	-20.29400636
0.54866949	1.20505723	0.00000000	35.19779163
-0.84197793	1.20827070	0.00000000	31.54476690
-1.55492799	0.00867526	0.00000000	-46.04573042
-0.86024592	-1.19659568	0.00000000	28.10520661
2.53859158	0.04298365	0.00000000	2.31990674
2.64442698	0.04298365	0.00000000	1.94447376
2.59150928	-0.00993405	0.00000000	-0.45958914
2.59150928	0.09590135	0.00000000	-0.17420596
0.48197666	-1.20761772	0.00000000	-19.96265906
0.58781206	-1.20761772	0.00000000	-18.33562718
0.53489436	-1.26053542	0.00000000	-0.72794496
0.53489436	-1.15470002	0.00000000	0.93007684
1.18265866	-0.00671127	0.00000000	-3.10725671
1.28849406	-0.00671127	0.00000000	-1.01887280
1.23557636	-0.05962897	0.00000000	12.30558578
1.23557636	0.04620643	0.00000000	11.77386539
0.49575179	1.20505723	0.00000000	-20.24028512
0.60158719	1.20505723	0.00000000	-18.32274982
0.54866949	1.15213953	0.00000000	2.83857871
0.54866949	1.25797493	0.00000000	0.67368722
-0.89489563	1.20827070	0.00000000	-11.27908790
-0.78906023	1.20827070	0.00000000	-11.13232785
-0.84197793	1.15535300	0.00000000	-4.34718131
-0.84197793	1.26118840	0.00000000	-4.62956361
-1.60784569	0.00867526	0.00000000	6.13664394
-1.50201029	0.00867526	0.00000000	5.30564507
-1.55492799	-0.04424244	0.00000000	17.18474448
-1.55492799	0.06159296	0.00000000	17.21809074
-0.91316362	-1.19659568	0.00000000	-10.55052406
-0.80732822	-1.19659568	0.00000000	-10.48948629
-0.86024592	-1.24951338	0.00000000	-3.69438224
-0.86024592	-1.14367798	0.00000000	-3.21452791
&TRANSITION 7->...			
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
	0.0	0.0	0.0 # magnet. mom.
0	0.0	# (r2r2) 30	
0.0	0.0	0.0 1.0	# electr. mom.
	0.0	0.0	0.0 # magnet. mom.
35	9713.0	# 1029.5 nm, (r3r2)	
-0.00952	0.072828	0.00000000 1.0	# electr. mom.
0.0	0.0	-1.983345155	# magnet. mom.
2.59150928	0.04298365	0.00000000	-2.61347821
0.53489436	-1.20761772	0.00000000	-5.92551600
1.23557636	-0.00671127	0.00000000	41.51376150
0.54866949	1.20505723	0.00000000	-10.81940110
-0.84197793	1.20827070	0.00000000	5.20241595
-1.55492799	0.00867526	0.00000000	-7.23221619
-0.86024592	-1.19659568	0.00000000	-6.19695513
2.53859158	0.04298365	0.00000000	2.18078791
2.64442698	0.04298365	0.00000000	1.53567054
2.59150928	-0.00993405	0.00000000	-0.50733155
2.59150928	0.09590135	0.00000000	-0.53335209
0.48197666	-1.20761772	0.00000000	6.59523145
0.58781206	-1.20761772	0.00000000	6.47237610
0.53489436	-1.26053542	0.00000000	-3.13511111
0.53489436	-1.15470002	0.00000000	-3.81988981
1.18265866	-0.00671127	0.00000000	-7.46335167
1.28849406	-0.00671127	0.00000000	-8.02019600
1.23557636	-0.05962897	0.00000000	-14.17736872
1.23557636	0.04620643	0.00000000	-11.96335885
0.49575179	1.20505723	0.00000000	6.05240241
0.60158719	1.20505723	0.00000000	4.52522697
0.54866949	1.15213953	0.00000000	0.22779697
0.54866949	1.25797493	0.00000000	-0.00200322
-0.89489563	1.20827070	0.00000000	4.42451086
-0.78906023	1.20827070	0.00000000	5.41177733
-0.84197793	1.15535300	0.00000000	-7.93708359
-0.84197793	1.26118840	0.00000000	-7.11427968
-1.60784569	0.00867526	0.00000000	2.93103733
-1.50201029	0.00867526	0.00000000	3.21517451
-1.55492799	-0.04424244	0.00000000	0.55659709
-1.55492799	0.06159296	0.00000000	0.55736863
-0.91316362	-1.19659568	0.00000000	-6.25869372
-0.80732822	-1.19659568	0.00000000	-8.68039255
-0.86024592	-1.24951338	0.00000000	9.99570718
-0.86024592	-1.14367798	0.00000000	11.00213649
35	14440.0	# 692.5 nm, (r6r2) 35	
-0.02442	0.058548	0.00000000 1.0	# electr. mom.
0.0	0.0	0.3558985919	# magnet. mom.
2.59150928	0.04298365	0.00000000	-9.82148129
0.53489436	-1.20761772	0.00000000	-48.17962592
1.23557636	-0.00671127	0.00000000	3.18745584
0.54866949	1.20505723	0.00000000	72.20447149
-0.84197793	1.20827070	0.00000000	-78.50021689

-1.55492799	0.00867526	0.00000000	6.84692661
-0.86024592	-1.19659568	0.00000000	53.30224524
2.53859158	0.04298365	0.00000000	3.96704479
2.64442698	0.04298365	0.00000000	3.36452400
2.59150928	-0.00993405	0.00000000	1.13669323
2.59150928	0.09590135	0.00000000	1.38017973
0.48197666	-1.20761772	0.00000000	-5.32946571
0.58781206	-1.20761772	0.00000000	-1.07781062
0.53489436	-1.26053542	0.00000000	26.10940925
0.53489436	-1.15470002	0.00000000	27.93686479
1.18265866	-0.00671127	0.00000000	10.65853605
1.28849406	-0.00671127	0.00000000	9.86127843
1.23557636	-0.05962897	0.00000000	-10.75935294
1.23557636	0.04620643	0.00000000	-12.94158349
0.49575179	1.20505723	0.00000000	-3.03593503
0.60158719	1.20505723	0.00000000	-4.53709605
0.54866949	1.15213953	0.00000000	-33.69338418
0.54866949	1.25797493	0.00000000	-30.78970175
-0.89489563	1.20827070	0.00000000	26.20218044
-0.78906023	1.20827070	0.00000000	27.91086985
-0.84197793	1.15535300	0.00000000	12.06808407
-0.84197793	1.26118840	0.00000000	12.12228494
-1.60784569	0.00867526	0.00000000	4.53596140
-1.50201029	0.00867526	0.00000000	6.16530987
-1.55492799	-0.04424244	0.00000000	-8.69872845
-1.55492799	0.06159296	0.00000000	-8.67501548
-0.91316362	-1.19659568	0.00000000	5.33729426
-0.80732822	-1.19659568	0.00000000	10.83953469
-0.86024592	-1.24951338	0.00000000	-32.34178889
-0.86024592	-1.14367798	0.00000000	-36.75596228
35 15471.0 # 646.4 nm, (r7r2) 35			
-0.10623	0.02506	0.00000000 1.0	# electr. mom.
0.0	0.0	0.2038478162E-01	# magnet. mom.
2.59150928	0.04298365	0.00000000	-5.69473738
0.53489436	-1.20761772	0.00000000	59.43442949
1.23557636	-0.00671127	0.00000000	-31.56845434
0.54866949	1.20505723	0.00000000	54.75212032
-0.84197793	1.20827070	0.00000000	49.06963741
-1.55492799	0.00867526	0.00000000	-71.62669177
-0.86024592	-1.19659568	0.00000000	43.71921029
2.53859158	0.04298365	0.00000000	3.60874382
2.64442698	0.04298365	0.00000000	3.02473695
2.59150928	-0.00993405	0.00000000	-0.71491645
2.59150928	0.09590135	0.00000000	-0.27098705
0.48197666	-1.20761772	0.00000000	-31.05302521
0.58781206	-1.20761772	0.00000000	-28.52208673
0.53489436	-1.26053542	0.00000000	-1.13235883
0.53489436	-1.15470002	0.00000000	1.44678619
1.18265866	-0.00671127	0.00000000	-4.83351043
1.28849406	-0.00671127	0.00000000	-1.58491324
1.23557636	-0.05962897	0.00000000	19.14202232
1.23557636	0.04620643	0.00000000	18.31490171
0.49575179	1.20505723	0.00000000	-31.48488797
0.60158719	1.20505723	0.00000000	-28.50205528
0.54866949	1.15213953	0.00000000	4.41556688
0.54866949	1.25797493	0.00000000	1.04795790
-0.89489563	1.20827070	0.00000000	-17.54524785
-0.78906023	1.20827070	0.00000000	-17.31695444
-0.84197793	1.15535300	0.00000000	-6.76228204
-0.84197793	1.26118840	0.00000000	-7.20154340
-1.60784569	0.00867526	0.00000000	9.54589057
-1.50201029	0.00867526	0.00000000	8.25322567
-1.55492799	-0.04424244	0.00000000	26.73182474
-1.55492799	0.06159296	0.00000000	26.78369670
-0.91316362	-1.19659568	0.00000000	-16.41192632
-0.80732822	-1.19659568	0.00000000	-16.31697867
-0.86024592	-1.24951338	0.00000000	-5.74681682
-0.86024592	-1.14367798	0.00000000	-5.00037674
&TRANSITION 8->...			
0 0.0 # (r2r2) 30			
0.0 0.0 0.0 1.0			
		# electr. mom.	
0.0 0.0 0.0 # magnet. mom.			
35 9713.0 # 1029.5 nm, (r3r2)			
-0.00476	0.036414	0.00000000 1.0	# electr. mom.
0.0	0.0	-1.983345155	# magnet. mom.
2.59150928	0.04298365	0.00000000	-1.30673911
0.53489436	-1.20761772	0.00000000	-2.96275800
1.23557636	-0.00671127	0.00000000	20.75688075
0.54866949	1.20505723	0.00000000	-5.40970055
-0.84197793	1.20827070	0.00000000	2.60120797
-1.55492799	0.00867526	0.00000000	-3.61610810
-0.86024592	-1.19659568	0.00000000	-3.09847757
2.53859158	0.04298365	0.00000000	1.09039395
2.64442698	0.04298365	0.00000000	0.76783527
2.59150928	-0.00993405	0.00000000	-0.25366577
2.59150928	0.09590135	0.00000000	-0.26667604
0.48197666	-1.20761772	0.00000000	3.29761573

0.58781206	-1.20761772	0.00000000	3.23618805
0.53489436	-1.26053542	0.00000000	-1.56755556
0.53489436	-1.15470002	0.00000000	-1.90994491
1.18265866	-0.00671127	0.00000000	-3.73167583
1.28849406	-0.00671127	0.00000000	-4.01009800
1.23557636	-0.05962897	0.00000000	-7.08868436
1.23557636	0.04620643	0.00000000	-5.98167943
0.49575179	1.20505723	0.00000000	3.02620120
0.60158719	1.20505723	0.00000000	2.26261348
0.54866949	1.15213953	0.00000000	0.11389848
0.54866949	1.25797493	0.00000000	-0.00100161
-0.89489563	1.20827070	0.00000000	2.21225543
-0.78906023	1.20827070	0.00000000	2.70588867
-0.84197793	1.15535300	0.00000000	-3.96854180
-0.84197793	1.26118840	0.00000000	-3.55713984
-1.60784569	0.00867526	0.00000000	1.46551867
-1.50201029	0.00867526	0.00000000	1.60758726
-1.55492799	-0.04424244	0.00000000	0.27829855
-1.55492799	0.06159296	0.00000000	0.27868431
-0.91316362	-1.19659568	0.00000000	-3.12934686
-0.80732822	-1.19659568	0.00000000	-4.34019628
-0.86024592	-1.24951338	0.00000000	4.99785359
-0.86024592	-1.14367798	0.00000000	5.50106825
35	14440.0 # 692.5 nm, (r6r2) 35		
-0.01221	0.029274	0.00000000 1.0	# electr. mom.
0.0	0.0	0.3558985919	# magnet. mom.
2.59150928	0.04298365	0.00000000	-4.91074065
0.53489436	-1.20761772	0.00000000	-24.08981296
1.23557636	-0.00671127	0.00000000	1.59372792
0.54866949	1.20505723	0.00000000	36.10223575
-0.84197793	1.20827070	0.00000000	-39.25010844
-1.55492799	0.00867526	0.00000000	3.42346330
-0.86024592	-1.19659568	0.00000000	26.65112262
2.53859158	0.04298365	0.00000000	1.98352239
2.64442698	0.04298365	0.00000000	1.68226200
2.59150928	-0.00993405	0.00000000	0.56834661
2.59150928	0.09590135	0.00000000	0.69008986
0.48197666	-1.20761772	0.00000000	-2.66473285
0.58781206	-1.20761772	0.00000000	-0.53890531
0.53489436	-1.26053542	0.00000000	13.05470463
0.53489436	-1.15470002	0.00000000	13.96843239
1.18265866	-0.00671127	0.00000000	5.32926803
1.28849406	-0.00671127	0.00000000	4.93063922
1.23557636	-0.05962897	0.00000000	-5.37967647
1.23557636	0.04620643	0.00000000	-6.47079174
0.49575179	1.20505723	0.00000000	-1.51796751
0.60158719	1.20505723	0.00000000	-2.26854802
0.54866949	1.15213953	0.00000000	-16.84669209
0.54866949	1.25797493	0.00000000	-15.39485088
-0.89489563	1.20827070	0.00000000	13.10109022
-0.78906023	1.20827070	0.00000000	13.95543493
-0.84197793	1.15535300	0.00000000	6.03404204
-0.84197793	1.26118840	0.00000000	6.06114247
-1.60784569	0.00867526	0.00000000	2.26798070
-1.50201029	0.00867526	0.00000000	3.08265493
-1.55492799	-0.04424244	0.00000000	-4.34936422
-1.55492799	0.06159296	0.00000000	-4.33750774
-0.91316362	-1.19659568	0.00000000	2.66864713
-0.80732822	-1.19659568	0.00000000	5.41976735
-0.86024592	-1.24951338	0.00000000	-16.17089445
-0.86024592	-1.14367798	0.00000000	-18.37798114
35	15471.0 # 646.4 nm, (r7r2) 35		
-0.05312	0.01253	0.00000000 1.0	# electr. mom.
0.0	0.0	0.2038478162E-01	# magnet. mom.
2.59150928	0.04298365	0.00000000	-2.84736869
0.53489436	-1.20761772	0.00000000	29.71721474
1.23557636	-0.00671127	0.00000000	-15.78422717
0.54866949	1.20505723	0.00000000	27.37606016
-0.84197793	1.20827070	0.00000000	24.53481870
-1.55492799	0.00867526	0.00000000	-35.81334588
-0.86024592	-1.19659568	0.00000000	21.85960514
2.53859158	0.04298365	0.00000000	1.80437191
2.64442698	0.04298365	0.00000000	1.51236848
2.59150928	-0.00993405	0.00000000	-0.35745822
2.59150928	0.09590135	0.00000000	-0.13549353
0.48197666	-1.20761772	0.00000000	-15.52651260
0.58781206	-1.20761772	0.00000000	-14.26104336
0.53489436	-1.26053542	0.00000000	-0.56617941
0.53489436	-1.15470002	0.00000000	0.72339310
1.18265866	-0.00671127	0.00000000	-2.41675522
1.28849406	-0.00671127	0.00000000	-0.79245662
1.23557636	-0.05962897	0.00000000	9.57101116
1.23557636	0.04620643	0.00000000	9.15745086
0.49575179	1.20505723	0.00000000	-15.74244398
0.60158719	1.20505723	0.00000000	-14.25102764
0.54866949	1.15213953	0.00000000	2.20778344
0.54866949	1.25797493	0.00000000	0.52397895

-0.89489563	1.20827070	0.00000000	-8.77262393
-0.78906023	1.20827070	0.00000000	-8.65847722
-0.84197793	1.15535300	0.00000000	-3.38114102
-0.84197793	1.26118840	0.00000000	-3.60077170
-1.60784569	0.00867526	0.00000000	4.77294528
-1.50201029	0.00867526	0.00000000	4.12661284
-1.55492799	-0.04424244	0.00000000	13.36591237
-1.55492799	0.06159296	0.00000000	13.39184835
-0.91316362	-1.19659568	0.00000000	-8.20596316
-0.80732822	-1.19659568	0.00000000	-8.15848933
-0.86024592	-1.24951338	0.00000000	-2.87340841
-0.86024592	-1.14367798	0.00000000	-2.50018837

&TRANSITION 9->...

35	9713.0	# 1029.5 nm,	(r3r2)	
	-0.00476	0.036414	0.00000000 1.0	# electr. mom.
	0.0	0.0	-1.983345155	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-1.30673911
	0.53489436	-1.20761772	0.00000000	-2.96275800
	1.23557636	-0.00671127	0.00000000	20.75688075
	0.54866949	1.20505723	0.00000000	-5.40970055
	-0.84197793	1.20827070	0.00000000	2.60120797
	-1.55492799	0.00867526	0.00000000	-3.61610810
	-0.86024592	-1.19659568	0.00000000	-3.09847757
	2.53859158	0.04298365	0.00000000	1.09039395
	2.64442698	0.04298365	0.00000000	0.76783527
	2.59150928	-0.00993405	0.00000000	-0.25366577
	2.59150928	0.09590135	0.00000000	-0.26667604
	0.48197666	-1.20761772	0.00000000	3.29761573
	0.58781206	-1.20761772	0.00000000	3.23618805
	0.53489436	-1.26053542	0.00000000	-1.56755556
	0.53489436	-1.15470002	0.00000000	-1.90994491
	1.18265866	-0.00671127	0.00000000	-3.73167583
	1.28849406	-0.00671127	0.00000000	-4.01009800
	1.23557636	-0.05962897	0.00000000	-7.08868436
	1.23557636	0.04620643	0.00000000	-5.98167943
	0.49575179	1.20505723	0.00000000	3.02620120
	0.60158719	1.20505723	0.00000000	2.26261348
	0.54866949	1.15213953	0.00000000	0.11389848
	0.54866949	1.25797493	0.00000000	-0.00100161
	-0.89489563	1.20827070	0.00000000	2.21225543
	-0.78906023	1.20827070	0.00000000	2.70588867
	-0.84197793	1.15535300	0.00000000	-3.96854180
	-0.84197793	1.26118840	0.00000000	-3.55713984
	-1.60784569	0.00867526	0.00000000	1.46551867
	-1.50201029	0.00867526	0.00000000	1.60758726
	-1.55492799	-0.04424244	0.00000000	0.27829855
	-1.55492799	0.06159296	0.00000000	0.27868431
	-0.91316362	-1.19659568	0.00000000	-3.12934686
	-0.80732822	-1.19659568	0.00000000	-4.34019628
	-0.86024592	-1.24951338	0.00000000	4.99785359
	-0.86024592	-1.14367798	0.00000000	5.50106825

35	14440.0	# 692.5 nm,	(r6r2) 35	
	-0.01221	0.029274	0.00000000 1.0	# electr. mom.
	0.0	0.0	0.3558985919	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-4.91074065
	0.53489436	-1.20761772	0.00000000	-24.08981296
	1.23557636	-0.00671127	0.00000000	1.59372792
	0.54866949	1.20505723	0.00000000	36.10223575
	-0.84197793	1.20827070	0.00000000	-39.25010844
	-1.55492799	0.00867526	0.00000000	3.42346330
	-0.86024592	-1.19659568	0.00000000	26.65112262
	2.53859158	0.04298365	0.00000000	1.98352239
	2.64442698	0.04298365	0.00000000	1.68226200
	2.59150928	-0.00993405	0.00000000	0.56834661
	2.59150928	0.09590135	0.00000000	0.69008986
	0.48197666	-1.20761772	0.00000000	-2.66473285
	0.58781206	-1.20761772	0.00000000	-0.53890531
	0.53489436	-1.26053542	0.00000000	13.05470463
	0.53489436	-1.15470002	0.00000000	13.96843239
	1.18265866	-0.00671127	0.00000000	5.32926803
	1.28849406	-0.00671127	0.00000000	4.93063922
	1.23557636	-0.05962897	0.00000000	-5.37967647
	1.23557636	0.04620643	0.00000000	-6.47079174
	0.49575179	1.20505723	0.00000000	-1.51796751
	0.60158719	1.20505723	0.00000000	-2.26854802
	0.54866949	1.15213953	0.00000000	-16.84669209
	0.54866949	1.25797493	0.00000000	-15.39485088
	-0.89489563	1.20827070	0.00000000	13.10109022
	-0.78906023	1.20827070	0.00000000	13.95543493
	-0.84197793	1.15535300	0.00000000	6.03404204
	-0.84197793	1.26118840	0.00000000	6.06114247
	-1.60784569	0.00867526	0.00000000	2.26798070
	-1.50201029	0.00867526	0.00000000	3.08265493
	-1.55492799	-0.04424244	0.00000000	-4.34936422
	-1.55492799	0.06159296	0.00000000	-4.33750774
	-0.91316362	-1.19659568	0.00000000	2.66864713
	-0.80732822	-1.19659568	0.00000000	5.41976735

	-0.86024592	-1.24951338	0.00000000	-16.17089445
	-0.86024592	-1.14367798	0.00000000	-18.37798114
35	15471.0	# 646.4 nm, (r7r2) 35		
	-0.05312	0.01253	0.00000000 1.0	# electr. mom.
	0.0	0.0	0.2038478162E-01	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-2.84736869
	0.53489436	-1.20761772	0.00000000	29.71721474
	1.23557636	-0.00671127	0.00000000	-15.78422717
	0.54866949	1.20505723	0.00000000	27.37606016
	-0.84197793	1.20827070	0.00000000	24.53481870
	-1.55492799	0.00867526	0.00000000	-35.81334588
	-0.86024592	-1.19659568	0.00000000	21.85960514
	2.53859158	0.04298365	0.00000000	1.80437191
	2.64442698	0.04298365	0.00000000	1.51236848
	2.59150928	-0.00993405	0.00000000	-0.35745822
	2.59150928	0.09590135	0.00000000	-0.13549353
	0.48197666	-1.20761772	0.00000000	-15.52651260
	0.58781206	-1.20761772	0.00000000	-14.26104336
	0.53489436	-1.26053542	0.00000000	-0.56617941
	0.53489436	-1.15470002	0.00000000	0.72339310
	1.18265866	-0.00671127	0.00000000	-2.41675522
	1.28849406	-0.00671127	0.00000000	-0.79245662
	1.23557636	-0.05962897	0.00000000	9.57101116
	1.23557636	0.04620643	0.00000000	9.15745086
	0.49575179	1.20505723	0.00000000	-15.74244398
	0.60158719	1.20505723	0.00000000	-14.25102764
	0.54866949	1.15213953	0.00000000	2.20778344
	0.54866949	1.25797493	0.00000000	0.52397895
	-0.89489563	1.20827070	0.00000000	-8.77262393
	-0.78906023	1.20827070	0.00000000	-8.65847722
	-0.84197793	1.15535300	0.00000000	-3.38114102
	-0.84197793	1.26118840	0.00000000	-3.60077170
	-1.60784569	0.00867526	0.00000000	4.77294528
	-1.50201029	0.00867526	0.00000000	4.12661284
	-1.55492799	-0.04424244	0.00000000	13.36591237
	-1.55492799	0.06159296	0.00000000	13.39184835
	-0.91316362	-1.19659568	0.00000000	-8.20596316
	-0.80732822	-1.19659568	0.00000000	-8.15848933
	-0.86024592	-1.24951338	0.00000000	-2.87340841
	-0.86024592	-1.14367798	0.00000000	-2.50018837
&TRANSITION 10->...				
35	4727.0	# 2115.5 nm, (r6r3) 35		
	1.48807284	-0.09106818	0.00000000 1.0	# electr. mom.
	0.0	0.0	0.8639312209E-02	# magnet. mom.
	2.59150928	0.04298365	0.00000000	95.82477960
	0.53489436	-1.20761772	0.00000000	606.84022723
	1.23557636	-0.00671127	0.00000000	-100.25727379
	0.54866949	1.20505723	0.00000000	140.65527614
	-0.84197793	1.20827070	0.00000000	90.87267418
	-1.55492799	0.00867526	0.00000000	439.77957734
	-0.86024592	-1.19659568	0.00000000	-353.41451414
	2.53859158	0.04298365	0.00000000	-49.88669285
	2.64442698	0.04298365	0.00000000	-38.44625818
	2.59150928	-0.00993405	0.00000000	-3.90766085
	2.59150928	0.09590135	0.00000000	-4.84615685
	0.48197666	-1.20761772	0.00000000	-214.98854611
	0.58781206	-1.20761772	0.00000000	-184.12219090
	0.53489436	-1.26053542	0.00000000	-103.49581493
	0.53489436	-1.15470002	0.00000000	-105.81629314
	1.18265866	-0.00671127	0.00000000	255.49410422
	1.28849406	-0.00671127	0.00000000	270.59974334
	1.23557636	-0.05962897	0.00000000	-223.34285683
	1.23557636	0.04620643	0.00000000	-200.46883478
	0.49575179	1.20505723	0.00000000	75.14450275
	0.60158719	1.20505723	0.00000000	48.90079685
	0.54866949	1.15213953	0.00000000	-141.42217603
	0.54866949	1.25797493	0.00000000	-123.05166610
	-0.89489563	1.20827070	0.00000000	-21.30914170
	-0.78906023	1.20827070	0.00000000	-30.23327918
	-0.84197793	1.15535300	0.00000000	-18.26947987
	-0.84197793	1.26118840	0.00000000	-21.74375851
	-1.60784569	0.00867526	0.00000000	-181.02478358
	-1.50201029	0.00867526	0.00000000	-182.68935269
	-1.55492799	-0.04424244	0.00000000	-32.34233611
	-1.55492799	0.06159296	0.00000000	-44.18543741
	-0.91316362	-1.19659568	0.00000000	202.93825190
	-0.80732822	-1.19659568	0.00000000	242.43571219
	-0.86024592	-1.24951338	0.00000000	-40.40657904
	-0.86024592	-1.14367798	0.00000000	-49.81456219
35	5758.0	# 1736.7 nm, (r7r3) 35		
	0.06188870	-0.59855896	0.00000000 1.0	# electr. mom.
	0.0	0.0	0.1938816566	# magnet. mom.
	2.59150928	0.04298365	0.00000000	-56.80432771
	0.53489436	-1.20761772	0.00000000	343.96857984
	1.23557636	-0.00671127	0.00000000	68.09730778
	0.54866949	1.20505723	0.00000000	-148.10345506
	-0.84197793	1.20827070	0.00000000	-81.01286400

-1.55492799	0.00867526	0.00000000	87.84957902
-0.86024592	-1.19659568	0.00000000	45.39205238
2.53859158	0.04298365	0.00000000	25.91228045
2.64442698	0.04298365	0.00000000	19.66331674
2.59150928	-0.00993405	0.00000000	5.46859661
2.59150928	0.09590135	0.00000000	6.28629168
0.48197666	-1.20761772	0.00000000	-190.35928829
0.58781206	-1.20761772	0.00000000	-168.20208542
0.53489436	-1.26053542	0.00000000	5.87880528
0.53489436	-1.15470002	0.00000000	5.81837971
1.18265866	-0.00671127	0.00000000	-36.87609163
1.28849406	-0.00671127	0.00000000	-43.95000989
1.23557636	-0.05962897	0.00000000	23.33978923
1.23557636	0.04620643	0.00000000	-10.87510214
0.49575179	1.20505723	0.00000000	108.70889155
0.60158719	1.20505723	0.00000000	91.08807576
0.54866949	1.15213953	0.00000000	-26.39638805
0.54866949	1.25797493	0.00000000	-23.19109099
-0.89489563	1.20827070	0.00000000	-63.90757104
-0.78906023	1.20827070	0.00000000	-89.97184906
-0.84197793	1.15535300	0.00000000	128.79463229
-0.84197793	1.26118840	0.00000000	105.56864088
-1.60784569	0.00867526	0.00000000	-14.58262229
-1.50201029	0.00867526	0.00000000	-16.30915392
-1.55492799	-0.04424244	0.00000000	-23.59581514
-1.55492799	0.06159296	0.00000000	-33.57896822
-0.91316362	-1.19659568	0.00000000	84.04830912
-0.80732822	-1.19659568	0.00000000	115.53638266
-0.86024592	-1.24951338	0.00000000	-111.13663243
-0.86024592	-1.14367798	0.00000000	-132.56659565

&TRANSITION 11->...

35	1031.0	# 9699.3 nm,	(r7r6) 35	
	-0.02861315	0.22079985	0.00000000 1.0	# electr. mom.
	0.0	0.0	-0.6922170416	# magnet. mom.
	2.59150928	0.04298365	0.00000000	17.95361717
	0.53489436	-1.20761772	0.00000000	-79.68137611
	1.23557636	-0.00671127	0.00000000	-115.51194437
	0.54866949	1.20505723	0.00000000	196.05966499
	-0.84197793	1.20827070	0.00000000	24.18781066
	-1.55492799	0.00867526	0.00000000	3.27544963
	-0.86024592	-1.19659568	0.00000000	-25.42560389
	2.53859158	0.04298365	0.00000000	-14.03637115
	2.64442698	0.04298365	0.00000000	-9.91459810
	2.59150928	-0.00993405	0.00000000	2.95834714
	2.59150928	0.09590135	0.00000000	2.62170547
	0.48197666	-1.20761772	0.00000000	22.61200464
	0.58781206	-1.20761772	0.00000000	22.98484958
	0.53489436	-1.26053542	0.00000000	15.48826464
	0.53489436	-1.15470002	0.00000000	18.68170286
	1.18265866	-0.00671127	0.00000000	86.35292376
	1.28849406	-0.00671127	0.00000000	87.86403403
	1.23557636	-0.05962897	0.00000000	-33.32300563
	1.23557636	0.04620643	0.00000000	-24.72148320
	0.49575179	1.20505723	0.00000000	-24.65676840
	0.60158719	1.20505723	0.00000000	-27.48297197
	0.54866949	1.15213953	0.00000000	-77.09111131
	0.54866949	1.25797493	0.00000000	-67.04909995
	-0.89489563	1.20827070	0.00000000	-7.88635483
	-0.78906023	1.20827070	0.00000000	-9.47487926
	-0.84197793	1.15535300	0.00000000	-4.67172869
	-0.84197793	1.26118840	0.00000000	-2.54105434
	-1.60784569	0.00867526	0.00000000	-7.26994306
	-1.50201029	0.00867526	0.00000000	-5.98156277
	-1.55492799	-0.04424244	0.00000000	4.96209787
	-1.55492799	0.06159296	0.00000000	5.23788542
	-0.91316362	-1.19659568	0.00000000	27.16570651
	-0.80732822	-1.19659568	0.00000000	31.49091019
	-0.86024592	-1.24951338	0.00000000	-15.41465275
	-0.86024592	-1.14367798	0.00000000	-17.76246475

&PERMANENT MOMENTS

35	0.0 # 0 nm, Grd. (r1r1) 35	
	-0.15749616 -1.86603626	0.00000000 1.0 # electr. mom.
	2.59150928	0.04298365 0.00000000 -1924.10150683
	0.53489436	-1.20761772 0.00000000 -1472.54504770
	1.23557636	-0.00671127 0.00000000 2497.02559066
	0.54866949	1.20505723 0.00000000 -1471.43893886
	-0.84197793	1.20827070 0.00000000 -616.03295818
	-1.55492799	0.00867526 0.00000000 -871.46214854
	-0.86024592	-1.19659568 0.00000000 -583.90681046
	2.53859158	0.04298365 0.00000000 638.75816098
	2.64442698	0.04298365 0.00000000 555.70149154
	2.59150928	-0.00993405 0.00000000 400.40103619
	2.59150928	0.09590135 0.00000000 335.36552846
	0.48197666	-1.20761772 0.00000000 241.18450646
	0.58781206	-1.20761772 0.00000000 283.35191280
	0.53489436	-1.26053542 0.00000000 440.83310755
	0.53489436	-1.15470002 0.00000000 516.39761429

1.18265866	-0.00671127	0.00000000	-539.58730824
1.28849406	-0.00671127	0.00000000	-549.05070187
1.23557636	-0.05962897	0.00000000	-769.77916814
1.23557636	0.04620643	0.00000000	-653.30047766
0.49575179	1.20505723	0.00000000	544.73951774
0.60158719	1.20505723	0.00000000	488.11764898
0.54866949	1.15213953	0.00000000	216.13401744
0.54866949	1.25797493	0.00000000	227.58120691
-0.89489563	1.20827070	0.00000000	-0.01520006
-0.78906023	1.20827070	0.00000000	-87.03183725
-0.84197793	1.15535300	0.00000000	366.39633254
-0.84197793	1.26118840	0.00000000	334.42500672
-1.60784569	0.00867526	0.00000000	403.92961229
-1.50201029	0.00867526	0.00000000	397.60028582
-1.55492799	-0.04424244	0.00000000	44.82510989
-1.55492799	0.06159296	0.00000000	22.37399438
-0.91316362	-1.19659568	0.00000000	-42.56573429
-0.80732822	-1.19659568	0.00000000	-77.75350320
-0.86024592	-1.24951338	0.00000000	350.98667347
-0.86024592	-1.14367798	0.00000000	352.44298613
35 0.0 # 0 nm, 1st Exc. (r2r2) 35			
-0.27436031	-1.89076488	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2205.70471032
0.53489436	-1.20761772	0.00000000	-3003.41318842
1.23557636	-0.00671127	0.00000000	4740.91499434
0.54866949	1.20505723	0.00000000	-2124.42920827
-0.84197793	1.20827070	0.00000000	-548.14161648
-1.55492799	0.00867526	0.00000000	-825.95875243
-0.86024592	-1.19659568	0.00000000	-193.71857688
2.53859158	0.04298365	0.00000000	676.26396192
2.64442698	0.04298365	0.00000000	570.55042397
2.59150928	-0.00993405	0.00000000	514.44075974
2.59150928	0.09590135	0.00000000	453.13345056
0.48197666	-1.20761772	0.00000000	986.39369962
0.58781206	-1.20761772	0.00000000	923.96598446
0.53489436	-1.26053542	0.00000000	509.02108056
0.53489436	-1.15470002	0.00000000	602.19467539
1.18265866	-0.00671127	0.00000000	-1278.40392773
1.28849406	-0.00671127	0.00000000	-1280.73548683
1.23557636	-0.05962897	0.00000000	-1151.86390584
1.23557636	0.04620643	0.00000000	-1051.81903709
0.49575179	1.20505723	0.00000000	815.84302128
0.60158719	1.20505723	0.00000000	730.27539302
0.54866949	1.15213953	0.00000000	302.75434656
0.54866949	1.25797493	0.00000000	285.64775098
-0.89489563	1.20827070	0.00000000	-96.24443683
-0.78906023	1.20827070	0.00000000	-204.95098315
-0.84197793	1.15535300	0.00000000	439.69365494
-0.84197793	1.26118840	0.00000000	404.76535080
-1.60784569	0.00867526	0.00000000	429.79578902
-1.50201029	0.00867526	0.00000000	427.94098488
-1.55492799	-0.04424244	0.00000000	-13.38929496
-1.55492799	0.06159296	0.00000000	-21.28232400
-0.91316362	-1.19659568	0.00000000	-213.96873542
-0.80732822	-1.19659568	0.00000000	-335.15434598
-0.86024592	-1.24951338	0.00000000	360.35389915
-0.86024592	-1.14367798	0.00000000	375.22930939
35 0.0 # 0 nm, 1st Exc. (r2r2) 35			
-0.27436031	-1.89076488	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2205.70471032
0.53489436	-1.20761772	0.00000000	-3003.41318842
1.23557636	-0.00671127	0.00000000	4740.91499434
0.54866949	1.20505723	0.00000000	-2124.42920827
-0.84197793	1.20827070	0.00000000	-548.14161648
-1.55492799	0.00867526	0.00000000	-825.95875243
-0.86024592	-1.19659568	0.00000000	-193.71857688
2.53859158	0.04298365	0.00000000	676.26396192
2.64442698	0.04298365	0.00000000	570.55042397
2.59150928	-0.00993405	0.00000000	514.44075974
2.59150928	0.09590135	0.00000000	453.13345056
0.48197666	-1.20761772	0.00000000	986.39369962
0.58781206	-1.20761772	0.00000000	923.96598446
0.53489436	-1.26053542	0.00000000	509.02108056
0.53489436	-1.15470002	0.00000000	602.19467539
1.18265866	-0.00671127	0.00000000	-1278.40392773
1.28849406	-0.00671127	0.00000000	-1280.73548683
1.23557636	-0.05962897	0.00000000	-1151.86390584
1.23557636	0.04620643	0.00000000	-1051.81903709
0.49575179	1.20505723	0.00000000	815.84302128
0.60158719	1.20505723	0.00000000	730.27539302
0.54866949	1.15213953	0.00000000	302.75434656
0.54866949	1.25797493	0.00000000	285.64775098
-0.89489563	1.20827070	0.00000000	-96.24443683
-0.78906023	1.20827070	0.00000000	-204.95098315
-0.84197793	1.15535300	0.00000000	439.69365494
-0.84197793	1.26118840	0.00000000	404.76535080
-1.60784569	0.00867526	0.00000000	429.79578902

-1.50201029	0.00867526	0.00000000	427.94098488
-1.55492799	-0.04424244	0.00000000	-13.38929496
-1.55492799	0.06159296	0.00000000	-21.28232400
-0.91316362	-1.19659568	0.00000000	-213.96873542
-0.80732822	-1.19659568	0.00000000	-335.15434598
-0.86024592	-1.24951338	0.00000000	360.35389915
-0.86024592	-1.14367798	0.00000000	375.22930939
35 0.0 # 0 nm, 1st Exc. (r2r2) 35			
-0.27436031	-1.89076488	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2205.70471032
0.53489436	-1.20761772	0.00000000	-3003.41318842
1.23557636	-0.00671127	0.00000000	4740.91499434
0.54866949	1.20505723	0.00000000	-2124.42920827
-0.84197793	1.20827070	0.00000000	-548.14161648
-1.55492799	0.00867526	0.00000000	-825.95875243
-0.86024592	-1.19659568	0.00000000	-193.71857688
2.53859158	0.04298365	0.00000000	676.26396192
2.64442698	0.04298365	0.00000000	570.55042397
2.59150928	-0.00993405	0.00000000	514.44075974
2.59150928	0.09590135	0.00000000	453.13345056
0.48197666	-1.20761772	0.00000000	986.39369962
0.58781206	-1.20761772	0.00000000	923.96598446
0.53489436	-1.26053542	0.00000000	509.02108056
0.53489436	-1.15470002	0.00000000	602.19467539
1.18265866	-0.00671127	0.00000000	-1278.40392773
1.28849406	-0.00671127	0.00000000	-1280.73548683
1.23557636	-0.05962897	0.00000000	-1151.86390584
1.23557636	0.04620643	0.00000000	-1051.81903709
0.49575179	1.20505723	0.00000000	815.84302128
0.60158719	1.20505723	0.00000000	730.27539302
0.54866949	1.15213953	0.00000000	302.75434656
0.54866949	1.25797493	0.00000000	285.64775098
-0.89489563	1.20827070	0.00000000	-96.24443683
-0.78906023	1.20827070	0.00000000	-204.95098315
-0.84197793	1.15535300	0.00000000	439.69365494
-0.84197793	1.26118840	0.00000000	404.76535080
-1.60784569	0.00867526	0.00000000	429.79578902
-1.50201029	0.00867526	0.00000000	427.94098488
-1.55492799	-0.04424244	0.00000000	-13.38929496
-1.55492799	0.06159296	0.00000000	-21.28232400
-0.91316362	-1.19659568	0.00000000	-213.96873542
-0.80732822	-1.19659568	0.00000000	-335.15434598
-0.86024592	-1.24951338	0.00000000	360.35389915
-0.86024592	-1.14367798	0.00000000	375.22930939
35 0.0 # 0 nm, 1st Exc. (r2r2) 35			
-0.27436031	-1.89076488	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2205.70471032
0.53489436	-1.20761772	0.00000000	-3003.41318842
1.23557636	-0.00671127	0.00000000	4740.91499434
0.54866949	1.20505723	0.00000000	-2124.42920827
-0.84197793	1.20827070	0.00000000	-548.14161648
-1.55492799	0.00867526	0.00000000	-825.95875243
-0.86024592	-1.19659568	0.00000000	-193.71857688
2.53859158	0.04298365	0.00000000	676.26396192
2.64442698	0.04298365	0.00000000	570.55042397
2.59150928	-0.00993405	0.00000000	514.44075974
2.59150928	0.09590135	0.00000000	453.13345056
0.48197666	-1.20761772	0.00000000	986.39369962
0.58781206	-1.20761772	0.00000000	923.96598446
0.53489436	-1.26053542	0.00000000	509.02108056
0.53489436	-1.15470002	0.00000000	602.19467539
1.18265866	-0.00671127	0.00000000	-1278.40392773
1.28849406	-0.00671127	0.00000000	-1280.73548683
1.23557636	-0.05962897	0.00000000	-1151.86390584
1.23557636	0.04620643	0.00000000	-1051.81903709
0.49575179	1.20505723	0.00000000	815.84302128
0.60158719	1.20505723	0.00000000	730.27539302
0.54866949	1.15213953	0.00000000	302.75434656
0.54866949	1.25797493	0.00000000	285.64775098
-0.89489563	1.20827070	0.00000000	-96.24443683
-0.78906023	1.20827070	0.00000000	-204.95098315
-0.84197793	1.15535300	0.00000000	439.69365494
-0.84197793	1.26118840	0.00000000	404.76535080
-1.60784569	0.00867526	0.00000000	429.79578902
-1.50201029	0.00867526	0.00000000	427.94098488
-1.55492799	-0.04424244	0.00000000	-13.38929496
-1.55492799	0.06159296	0.00000000	-21.28232400
-0.91316362	-1.19659568	0.00000000	-213.96873542
-0.80732822	-1.19659568	0.00000000	-335.15434598
-0.86024592	-1.24951338	0.00000000	360.35389915
-0.86024592	-1.14367798	0.00000000	375.22930939
35 0.0 # 0 nm, 1st Exc. (r2r2) 35			
-0.27436031	-1.89076488	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2205.70471032
0.53489436	-1.20761772	0.00000000	-3003.41318842
1.23557636	-0.00671127	0.00000000	4740.91499434
0.54866949	1.20505723	0.00000000	-2124.42920827

-0.84197793	1.20827070	0.00000000	-548.14161648
-1.55492799	0.00867526	0.00000000	-825.95875243
-0.86024592	-1.19659568	0.00000000	-193.71857688
2.53859158	0.04298365	0.00000000	676.26396192
2.64442698	0.04298365	0.00000000	570.55042397
2.59150928	-0.00993405	0.00000000	514.44075974
2.59150928	0.09590135	0.00000000	453.13345056
0.48197666	-1.20761772	0.00000000	986.39369962
0.58781206	-1.20761772	0.00000000	923.96598446
0.53489436	-1.26053542	0.00000000	509.02108056
0.53489436	-1.15470002	0.00000000	602.19467539
1.18265866	-0.00671127	0.00000000	-1278.40392773
1.28849406	-0.00671127	0.00000000	-1280.73548683
1.23557636	-0.05962897	0.00000000	-1151.86390584
1.23557636	0.04620643	0.00000000	-1051.81903709
0.49575179	1.20505723	0.00000000	815.84302128
0.60158719	1.20505723	0.00000000	730.27539302
0.54866949	1.15213953	0.00000000	302.75434656
0.54866949	1.25797493	0.00000000	285.64775098
-0.89489563	1.20827070	0.00000000	-96.24443683
-0.78906023	1.20827070	0.00000000	-204.95098315
-0.84197793	1.15535300	0.00000000	439.69365494
-0.84197793	1.26118840	0.00000000	404.76535080
-1.60784569	0.00867526	0.00000000	429.79578902
-1.50201029	0.00867526	0.00000000	427.94098488
-1.55492799	-0.04424244	0.00000000	-13.38929496
-1.55492799	0.06159296	0.00000000	-21.28232400
-0.91316362	-1.19659568	0.00000000	-213.96873542
-0.80732822	-1.19659568	0.00000000	-335.15434598
-0.86024592	-1.24951338	0.00000000	360.35389915
-0.86024592	-1.14367798	0.00000000	375.22930939

35 0.0 # 0 nm, 1st Exc. (r2r2) 35

-0.27436031	-1.89076488	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2205.70471032
0.53489436	-1.20761772	0.00000000	-3003.41318842
1.23557636	-0.00671127	0.00000000	4740.91499434
0.54866949	1.20505723	0.00000000	-2124.42920827
-0.84197793	1.20827070	0.00000000	-548.14161648
-1.55492799	0.00867526	0.00000000	-825.95875243
-0.86024592	-1.19659568	0.00000000	-193.71857688
2.53859158	0.04298365	0.00000000	676.26396192
2.64442698	0.04298365	0.00000000	570.55042397
2.59150928	-0.00993405	0.00000000	514.44075974
2.59150928	0.09590135	0.00000000	453.13345056
0.48197666	-1.20761772	0.00000000	986.39369962
0.58781206	-1.20761772	0.00000000	923.96598446
0.53489436	-1.26053542	0.00000000	509.02108056
0.53489436	-1.15470002	0.00000000	602.19467539
1.18265866	-0.00671127	0.00000000	-1278.40392773
1.28849406	-0.00671127	0.00000000	-1280.73548683
1.23557636	-0.05962897	0.00000000	-1151.86390584
1.23557636	0.04620643	0.00000000	-1051.81903709
0.49575179	1.20505723	0.00000000	815.84302128
0.60158719	1.20505723	0.00000000	730.27539302
0.54866949	1.15213953	0.00000000	302.75434656
0.54866949	1.25797493	0.00000000	285.64775098
-0.89489563	1.20827070	0.00000000	-96.24443683
-0.78906023	1.20827070	0.00000000	-204.95098315
-0.84197793	1.15535300	0.00000000	439.69365494
-0.84197793	1.26118840	0.00000000	404.76535080
-1.60784569	0.00867526	0.00000000	429.79578902
-1.50201029	0.00867526	0.00000000	427.94098488
-1.55492799	-0.04424244	0.00000000	-13.38929496
-1.55492799	0.06159296	0.00000000	-21.28232400
-0.91316362	-1.19659568	0.00000000	-213.96873542
-0.80732822	-1.19659568	0.00000000	-335.15434598
-0.86024592	-1.24951338	0.00000000	360.35389915
-0.86024592	-1.14367798	0.00000000	375.22930939

35 0.0 # 0 nm, 1st Exc. (r2r2) 35

-0.27436031	-1.89076488	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2205.70471032
0.53489436	-1.20761772	0.00000000	-3003.41318842
1.23557636	-0.00671127	0.00000000	4740.91499434
0.54866949	1.20505723	0.00000000	-2124.42920827
-0.84197793	1.20827070	0.00000000	-548.14161648
-1.55492799	0.00867526	0.00000000	-825.95875243
-0.86024592	-1.19659568	0.00000000	-193.71857688
2.53859158	0.04298365	0.00000000	676.26396192
2.64442698	0.04298365	0.00000000	570.55042397
2.59150928	-0.00993405	0.00000000	514.44075974
2.59150928	0.09590135	0.00000000	453.13345056
0.48197666	-1.20761772	0.00000000	986.39369962
0.58781206	-1.20761772	0.00000000	923.96598446
0.53489436	-1.26053542	0.00000000	509.02108056
0.53489436	-1.15470002	0.00000000	602.19467539
1.18265866	-0.00671127	0.00000000	-1278.40392773
1.28849406	-0.00671127	0.00000000	-1280.73548683

1.23557636	-0.05962897	0.00000000	-1151.86390584
1.23557636	0.04620643	0.00000000	-1051.81903709
0.49575179	1.20505723	0.00000000	815.84302128
0.60158719	1.20505723	0.00000000	730.27539302
0.54866949	1.15213953	0.00000000	302.75434656
0.54866949	1.25797493	0.00000000	285.64775098
-0.89489563	1.20827070	0.00000000	-96.24443683
-0.78906023	1.20827070	0.00000000	-204.95098315
-0.84197793	1.15535300	0.00000000	439.69365494
-0.84197793	1.26118840	0.00000000	404.76535080
-1.60784569	0.00867526	0.00000000	429.79578902
-1.50201029	0.00867526	0.00000000	427.94098488
-1.55492799	-0.04424244	0.00000000	-13.38929496
-1.55492799	0.06159296	0.00000000	-21.28232400
-0.91316362	-1.19659568	0.00000000	-213.96873542
-0.80732822	-1.19659568	0.00000000	-335.15434598
-0.86024592	-1.24951338	0.00000000	360.35389915
-0.86024592	-1.14367798	0.00000000	375.22930939

35 0.0 # 0 nm, 1st Exc. (r2r2) 35

-0.27436031	-1.89076488	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2205.70471032
0.53489436	-1.20761772	0.00000000	-3003.41318842
1.23557636	-0.00671127	0.00000000	4740.91499434
0.54866949	1.20505723	0.00000000	-2124.42920827
-0.84197793	1.20827070	0.00000000	-548.14161648
-1.55492799	0.00867526	0.00000000	-825.95875243
-0.86024592	-1.19659568	0.00000000	-193.71857688
2.53859158	0.04298365	0.00000000	676.26396192
2.64442698	0.04298365	0.00000000	570.55042397
2.59150928	-0.00993405	0.00000000	514.44075974
2.59150928	0.09590135	0.00000000	453.13345056
0.48197666	-1.20761772	0.00000000	986.39369962
0.58781206	-1.20761772	0.00000000	923.96598446
0.53489436	-1.26053542	0.00000000	509.02108056
0.53489436	-1.15470002	0.00000000	602.19467539
1.18265866	-0.00671127	0.00000000	-1278.40392773
1.28849406	-0.00671127	0.00000000	-1280.73548683
1.23557636	-0.05962897	0.00000000	-1151.86390584
1.23557636	0.04620643	0.00000000	-1051.81903709
0.49575179	1.20505723	0.00000000	815.84302128
0.60158719	1.20505723	0.00000000	730.27539302
0.54866949	1.15213953	0.00000000	302.75434656
0.54866949	1.25797493	0.00000000	285.64775098
-0.89489563	1.20827070	0.00000000	-96.24443683
-0.78906023	1.20827070	0.00000000	-204.95098315
-0.84197793	1.15535300	0.00000000	439.69365494
-0.84197793	1.26118840	0.00000000	404.76535080
-1.60784569	0.00867526	0.00000000	429.79578902
-1.50201029	0.00867526	0.00000000	427.94098488
-1.55492799	-0.04424244	0.00000000	-13.38929496
-1.55492799	0.06159296	0.00000000	-21.28232400
-0.91316362	-1.19659568	0.00000000	-213.96873542
-0.80732822	-1.19659568	0.00000000	-335.15434598
-0.86024592	-1.24951338	0.00000000	360.35389915
-0.86024592	-1.14367798	0.00000000	375.22930939

35 0.0 # 0 nm, 2nd Exc. (r3r3) 35

2.57808686	-1.78202820	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2130.28508213
0.53489436	-1.20761772	0.00000000	-4141.60188144
1.23557636	-0.00671127	0.00000000	5249.55833784
0.54866949	1.20505723	0.00000000	-2442.45488717
-0.84197793	1.20827070	0.00000000	-298.86572981
-1.55492799	0.00867526	0.00000000	-1916.94511632
-0.86024592	-1.19659568	0.00000000	448.98565277
2.53859158	0.04298365	0.00000000	651.50498837
2.64442698	0.04298365	0.00000000	540.36514541
2.59150928	-0.00993405	0.00000000	504.35508821
2.59150928	0.09590135	0.00000000	444.03678384
0.48197666	-1.20761772	0.00000000	1553.80218230
0.58781206	-1.20761772	0.00000000	1410.00418930
0.53489436	-1.26053542	0.00000000	554.08593571
0.53489436	-1.15470002	0.00000000	648.55549555
1.18265866	-0.00671127	0.00000000	-1528.37101934
1.28849406	-0.00671127	0.00000000	-1545.73866072
1.23557636	-0.05962897	0.00000000	-1149.49572835
1.23557636	0.04620643	0.00000000	-1048.91683061
0.49575179	1.20505723	0.00000000	934.27349074
0.60158719	1.20505723	0.00000000	827.46651058
0.54866949	1.15213953	0.00000000	357.47538221
0.54866949	1.25797493	0.00000000	335.65543056
-0.89489563	1.20827070	0.00000000	-268.52914099
-0.78906023	1.20827070	0.00000000	-407.67874094
-0.84197793	1.15535300	0.00000000	502.37847187
-0.84197793	1.26118840	0.00000000	465.29809819
-1.60784569	0.00867526	0.00000000	594.36510797
-1.50201029	0.00867526	0.00000000	607.39937016
-1.55492799	-0.04424244	0.00000000	360.84938443

-1.55492799	0.06159296	0.00000000	351.71309141
-0.91316362	-1.19659568	0.00000000	-550.66996867
-0.80732822	-1.19659568	0.00000000	-755.47941408
-0.86024592	-1.24951338	0.00000000	411.56188027
-0.86024592	-1.14367798	0.00000000	431.34218280
35 0.0 # 0 nm, 3rd Exc. (r6r6) 35			
1.94379795	-1.83538966	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2104.92830160
0.53489436	-1.20761772	0.00000000	-2968.94001955
1.23557636	-0.00671127	0.00000000	4778.39202974
0.54866949	1.20505723	0.00000000	-2348.00595902
-0.84197793	1.20827070	0.00000000	-711.50000990
-1.55492799	0.00867526	0.00000000	-1176.99612576
-0.86024592	-1.19659568	0.00000000	-419.58363538
2.53859158	0.04298365	0.00000000	660.31864008
2.64442698	0.04298365	0.00000000	560.64612211
2.59150928	-0.00993405	0.00000000	478.01464896
2.59150928	0.09590135	0.00000000	414.52018886
0.48197666	-1.20761772	0.00000000	1025.17773394
0.58781206	-1.20761772	0.00000000	955.98062568
0.53489436	-1.26053542	0.00000000	459.39825538
0.53489436	-1.15470002	0.00000000	546.87444686
1.18265866	-0.00671127	0.00000000	-1240.24718275
1.28849406	-0.00671127	0.00000000	-1239.80410814
1.23557636	-0.05962897	0.00000000	-1211.66279314
1.23557636	0.04620643	0.00000000	-1107.87477350
0.49575179	1.20505723	0.00000000	957.29562096
0.60158719	1.20505723	0.00000000	854.95073683
0.54866949	1.15213953	0.00000000	278.82492264
0.54866949	1.25797493	0.00000000	267.91960997
-0.89489563	1.20827070	0.00000000	-37.06887062
-0.78906023	1.20827070	0.00000000	-151.96975344
-0.84197793	1.15535300	0.00000000	466.25421096
-0.84197793	1.26118840	0.00000000	428.56477138
-1.60784569	0.00867526	0.00000000	508.48388832
-1.50201029	0.00867526	0.00000000	507.86096021
-1.55492799	-0.04424244	0.00000000	84.88229856
-1.55492799	0.06159296	0.00000000	72.39201144
-0.91316362	-1.19659568	0.00000000	-167.27068368
-0.80732822	-1.19659568	0.00000000	-286.18744234
-0.86024592	-1.24951338	0.00000000	424.31954491
-0.86024592	-1.14367798	0.00000000	440.96839094
35 0.0 # 0 nm, 4th Exc. (r7r7) 35			
0.04690673	-1.76174511	0.00000000	1.0 # electr. mom.
2.59150928	0.04298365	0.00000000	-2204.12660366
0.53489436	-1.20761772	0.00000000	-3323.73920011
1.23557636	-0.00671127	0.00000000	4830.30737606
0.54866949	1.20505723	0.00000000	-2341.95905122
-0.84197793	1.20827070	0.00000000	-538.29001594
-1.55492799	0.00867526	0.00000000	-1193.05124006
-0.86024592	-1.19659568	0.00000000	-209.74860398
2.53859158	0.04298365	0.00000000	666.00444312
2.64442698	0.04298365	0.00000000	560.04657365
2.59150928	-0.00993405	0.00000000	523.84917134
2.59150928	0.09590135	0.00000000	463.04404680
0.48197666	-1.20761772	0.00000000	1063.56867869
0.58781206	-1.20761772	0.00000000	995.30997024
0.53489436	-1.26053542	0.00000000	591.06339101
0.53489436	-1.15470002	0.00000000	693.14805566
1.18265866	-0.00671127	0.00000000	-1352.48610043
1.28849406	-0.00671127	0.00000000	-1347.30507154
1.23557636	-0.05962897	0.00000000	-1126.60287792
1.23557636	0.04620643	0.00000000	-1026.88980154
0.49575179	1.20505723	0.00000000	875.30309938
0.60158719	1.20505723	0.00000000	781.33299917
0.54866949	1.15213953	0.00000000	360.82675570
0.54866949	1.25797493	0.00000000	336.06115358
-0.89489563	1.20827070	0.00000000	-150.04387037
-0.78906023	1.20827070	0.00000000	-273.35614930
-0.84197793	1.15535300	0.00000000	494.39510477
-0.84197793	1.26118840	0.00000000	461.02928021
-1.60784569	0.00867526	0.00000000	498.43575038
-1.50201029	0.00867526	0.00000000	508.06344384
-1.55492799	-0.04424244	0.00000000	94.65384662
-1.55492799	0.06159296	0.00000000	89.75177280
-0.91316362	-1.19659568	0.00000000	-216.07583453
-0.80732822	-1.19659568	0.00000000	-347.77335442
-0.86024592	-1.24951338	0.00000000	376.80039989
-0.86024592	-1.14367798	0.00000000	388.45246210


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-TRPVIB00-
9 # Tryptophan_aromatic group / toluene
  1.32524160      1.15754119      0.00000000 1.0 # Cg
 -0.04178901      0.70146732      0.00000000 1.0 # Cd2
  0.00000000     -0.70208856      0.00000000 1.0 # Ce2
 -1.28611127      1.35334701      0.00000000 1.0 # Ce3
  2.11092008      0.04406598      0.00000000 1.0 # Cd1
  1.31876712     -1.08237515      0.00000000 1.0 # Ne1
 -1.16182210     -1.48163547      0.00000000 1.0 # Cz2
 -2.44031892      0.59060606      0.00000000 1.0 # Cz3
 -2.37713680     -0.81881549      0.00000000 1.0 # Ch2
&TRANSITION 1->...
45 34424 # 290.5 nm, (r2r1v1) 45 = 1Lb_v1 state
  0.446297      0.428546      0.00000000 1.0 # electr. mom.
  0.00000000      0.00000000      0.6618344880E-01 # magnet. mom.
  1.31876649     -1.08237463      0.00000000 -277.64078714
  0.00000000     -0.70208822      0.00000000 -461.75329033
  2.11091906      0.04406596      0.00000000 540.42202991
  1.32524096      1.15754064      0.00000000 -347.77662620
 -0.04178899      0.70146698      0.00000000 433.76265503
 -1.16182154     -1.48163476      0.00000000 202.72961486
 -2.37713566     -0.81881509      0.00000000 -71.94993426
 -2.44031774      0.59060577      0.00000000 -12.97513683
 -1.28611065      1.35334636      0.00000000 32.30473501
  1.26584879     -1.08237463      0.00000000 111.05542497
  1.37168419     -1.08237463      0.00000000 101.60083067
  1.31876649     -1.13529233      0.00000000 31.52825164
  1.31876649     -1.02945693      0.00000000 33.67735344
 -0.05291770     -0.70208822      0.00000000 164.91310212
  0.05291770     -0.70208822      0.00000000 164.87789491
  0.00000000     -0.75500592      0.00000000 64.20899956
  0.00000000     -0.64917052      0.00000000 70.05420401
  2.05800137      0.04406596      0.00000000 -66.63753945
  2.16383676      0.04406596      0.00000000 -53.97027625
  2.11091906     -0.00885174      0.00000000 -207.56251836
  2.11091906      0.09698366      0.00000000 -212.98399500
  1.27232327      1.15754064      0.00000000 179.86698343
  1.37815866      1.15754064      0.00000000 157.97088538
  1.32524096      1.10462294      0.00000000 7.29782154
  1.32524096      1.21045834      0.00000000 4.57900696
 -0.09470669      0.70146698      0.00000000 2.28995459
  0.01112871      0.70146698      0.00000000 -9.09822488
 -0.04178899      0.64854929      0.00000000 -221.37782800
 -0.04178899      0.75438469      0.00000000 -208.51453764
 -1.21473924     -1.48163476      0.00000000 -53.64106404
 -1.10890384     -1.48163476      0.00000000 -58.08421463
 -1.16182154     -1.53455246      0.00000000 -39.98894314
 -1.16182154     -1.42871706      0.00000000 -52.50443795
 -2.43005336     -0.81881509      0.00000000 23.43428639
 -2.32421796     -0.81881509      0.00000000 30.36073870
 -2.37713566     -0.87173279      0.00000000 8.81465922
 -2.37713566     -0.76589740      0.00000000 10.14078687
 -2.49323545      0.59060577      0.00000000 16.10707973
 -2.38740004      0.59060577      0.00000000 15.95258558
 -2.44031774      0.53768808      0.00000000 -11.27038448
 -2.44031774      0.64352347      0.00000000 -8.15292193
 -1.33902835      1.35334636      0.00000000 10.52086740
 -1.23319294      1.35334636      0.00000000 12.99171097
 -1.28611065      1.30042866      0.00000000 -29.81988328
 -1.28611065      1.40626406      0.00000000 -25.75991909
45 35273 # 283.5 nm, (r2v2r1) 45 = 1Lb_v2 state
  0.338322      0.324866      0.00000000 1.0 # electr. mom.
  0.00000000      0.00000000      0.6618344880E-01 # magnet. mom.
  1.31876649     -1.08237463      0.00000000 -210.46962896
  0.00000000     -0.70208822      0.00000000 -350.03878461
  2.11091906      0.04406596      0.00000000 409.67476461
  1.32524096      1.15754064      0.00000000 -263.63711986
 -0.04178899      0.70146698      0.00000000 328.82007720
 -1.16182154     -1.48163476      0.00000000 153.68212740
 -2.37713566     -0.81881509      0.00000000 -54.54269210
 -2.44031774      0.59060577      0.00000000 -9.83599082
 -1.28611065      1.35334636      0.00000000 24.48907332
  1.26584879     -1.08237463      0.00000000 84.18717699
  1.37168419     -1.08237463      0.00000000 77.01998454
  1.31876649     -1.13529233      0.00000000 23.90044883
  1.31876649     -1.02945693      0.00000000 25.52960664
 -0.05291770     -0.70208822      0.00000000 125.01477096
  0.05291770     -0.70208822      0.00000000 124.98808162
  0.00000000     -0.75500592      0.00000000 48.67456418
  0.00000000     -0.64917052      0.00000000 53.10560627
  2.05800137      0.04406596      0.00000000 -50.51555410
  2.16383676      0.04406596      0.00000000 -40.91295135
  2.11091906     -0.00885174      0.00000000 -157.34578005
  2.11091906      0.09698366      0.00000000 -161.45560911
  1.27232327      1.15754064      0.00000000 136.35077776
  1.37815866      1.15754064      0.00000000 119.75212279
  1.32524096      1.10462294      0.00000000 5.53221955

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	1.32524096	1.21045834	0.00000000	3.47118269
	-0.09470669	0.70146698	0.00000000	1.73593332
	0.01112871	0.70146698	0.00000000	-6.89704144
	-0.04178899	0.64854929	0.00000000	-167.81867606
	-0.04178899	0.75438469	0.00000000	-158.06747208
	-1.21473924	-1.48163476	0.00000000	-40.66338726
	-1.10890384	-1.48163476	0.00000000	-44.03158206
	-1.16182154	-1.53455246	0.00000000	-30.31419883
	-1.16182154	-1.42871706	0.00000000	-39.80175135
	-2.43005336	-0.81881509	0.00000000	17.76470097
	-2.32421796	-0.81881509	0.00000000	23.01539869
	-2.37713566	-0.87173279	0.00000000	6.68208038
	-2.37713566	-0.76589740	0.00000000	7.68737069
	-2.49323545	0.59060577	0.00000000	12.21020560
	-2.38740004	0.59060577	0.00000000	12.09308907
	-2.44031774	0.53768808	0.00000000	-8.54367856
	-2.44031774	0.64352347	0.00000000	-6.18044082
	-1.33902835	1.35334636	0.00000000	7.97549625
	-1.23319294	1.35334636	0.00000000	9.84855509
	-1.28611065	1.30042866	0.00000000	-22.60539539
	-1.28611065	1.40626406	0.00000000	-19.52768060
45	35381	# 282.6 nm,	(r2v3r1) 45 = 1Lb_v3 state	
	0.316727	0.304129	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	0.6618344880E-01	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-197.03539733
	0.00000000	-0.70208822	0.00000000	-327.69588346
	2.11091906	0.04406596	0.00000000	383.52531155
	1.32524096	1.15754064	0.00000000	-246.80921859
	-0.04178899	0.70146698	0.00000000	307.83156164
	-1.16182154	-1.48163476	0.00000000	143.87262990
	-2.37713566	-0.81881509	0.00000000	-51.06124367
	-2.44031774	0.59060577	0.00000000	-9.20816162
	-1.28611065	1.35334636	0.00000000	22.92594098
	1.26584879	-1.08237463	0.00000000	78.81352740
	1.37168419	-1.08237463	0.00000000	72.10381532
	1.31876649	-1.13529233	0.00000000	22.37488826
	1.31876649	-1.02945693	0.00000000	23.90005728
	-0.05291770	-0.70208822	0.00000000	117.03510473
	0.05291770	-0.70208822	0.00000000	117.01011897
	0.00000000	-0.75500592	0.00000000	45.56767710
	0.00000000	-0.64917052	0.00000000	49.71588672
	2.05800137	0.04406596	0.00000000	-47.29115703
	2.16383676	0.04406596	0.00000000	-38.30148637
	2.11091906	-0.00885174	0.00000000	-147.30243238
	2.11091906	0.09698366	0.00000000	-151.14993194
	1.27232327	1.15754064	0.00000000	127.64753663
	1.37815866	1.15754064	0.00000000	112.10837027
	1.32524096	1.10462294	0.00000000	5.17909916
	1.32524096	1.21045834	0.00000000	3.24961784
	-0.09470669	0.70146698	0.00000000	1.62512907
	0.01112871	0.70146698	0.00000000	-6.45680475
	-0.04178899	0.64854929	0.00000000	-157.10684568
	-0.04178899	0.75438469	0.00000000	-147.97805897
	-1.21473924	-1.48163476	0.00000000	-38.06785190
	-1.10890384	-1.48163476	0.00000000	-41.22105555
	-1.16182154	-1.53455246	0.00000000	-28.37924997
	-1.16182154	-1.42871706	0.00000000	-37.26121403
	-2.43005336	-0.81881509	0.00000000	16.63078389
	-2.32421796	-0.81881509	0.00000000	21.54633069
	-2.37713566	-0.87173279	0.00000000	6.25556461
	-2.37713566	-0.76589740	0.00000000	7.19668746
	-2.49323545	0.59060577	0.00000000	11.43083078
	-2.38740004	0.59060577	0.00000000	11.32118977
	-2.44031774	0.53768808	0.00000000	-7.99833738
	-2.44031774	0.64352347	0.00000000	-5.78594460
	-1.33902835	1.35334636	0.00000000	7.46642202
	-1.23319294	1.35334636	0.00000000	9.21992392
	-1.28611065	1.30042866	0.00000000	-21.16249781
	-1.28611065	1.40626406	0.00000000	-18.28123290
45	35972	# 278.0 nm,	(r2v4r1) 45 = 1Lb_v4 state	
	0.165562	0.158977	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	0.6618344880E-01	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-102.99577588
	0.00000000	-0.70208822	0.00000000	-171.29557545
	2.11091906	0.04406596	0.00000000	200.47914013
	1.32524096	1.15754064	0.00000000	-129.01390972
	-0.04178899	0.70146698	0.00000000	160.91195267
	-1.16182154	-1.48163476	0.00000000	75.20614745
	-2.37713566	-0.81881509	0.00000000	-26.69110464
	-2.44031774	0.59060577	0.00000000	-4.81335721
	-1.28611065	1.35334636	0.00000000	11.98401460
	1.26584879	-1.08237463	0.00000000	41.19798023
	1.37168419	-1.08237463	0.00000000	37.69063073
	1.31876649	-1.13529233	0.00000000	11.69596432
	1.31876649	-1.02945693	0.00000000	12.49321176
	-0.05291770	-0.70208822	0.00000000	61.17744111
	0.05291770	-0.70208822	0.00000000	61.16438037

0.00000000	-0.75500592	0.00000000	23.81946758
0.00000000	-0.64917052	0.00000000	25.98784987
2.05800137	0.04406596	0.00000000	-24.72037754
2.16383676	0.04406596	0.00000000	-20.02123151
2.11091906	-0.00885174	0.00000000	-76.99899875
2.11091906	0.09698366	0.00000000	-79.01019169
1.27232327	1.15754064	0.00000000	66.72484869
1.37815866	1.15754064	0.00000000	58.60210264
1.32524096	1.10462294	0.00000000	2.70725638
1.32524096	1.21045834	0.00000000	1.69866387
-0.09470669	0.70146698	0.00000000	0.84949928
0.01112871	0.70146698	0.00000000	-3.37514794
-0.04178899	0.64854929	0.00000000	-82.12403297
-0.04178899	0.75438469	0.00000000	-77.35216719
-1.21473924	-1.48163476	0.00000000	-19.89910440
-1.10890384	-1.48163476	0.00000000	-21.54736994
-1.16182154	-1.53455246	0.00000000	-14.83460794
-1.16182154	-1.42871706	0.00000000	-19.47745279
-2.43005336	-0.81881509	0.00000000	8.69336431
-2.32421796	-0.81881509	0.00000000	11.26285468
-2.37713566	-0.87173279	0.00000000	3.26995423
-2.37713566	-0.76589740	0.00000000	3.76190481
-2.49323545	0.59060577	0.00000000	5.97520700
-2.38740004	0.59060577	0.00000000	5.91789465
-2.44031774	0.53768808	0.00000000	-4.18094908
-2.44031774	0.64352347	0.00000000	-3.02447104
-1.33902835	1.35334636	0.00000000	3.90290242
-1.23319294	1.35334636	0.00000000	4.81950568
-1.28611065	1.30042866	0.00000000	-11.06221477
-1.28611065	1.40626406	0.00000000	-9.55609902
45 36157 # 276.6 nm,	(r2v5r1) 45 = 1Lb_v5 state		
0.237545	0.228097	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.6618344880E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-147.77654800
0.00000000	-0.70208822	0.00000000	-245.77191260
2.11091906	0.04406596	0.00000000	287.64398366
1.32524096	1.15754064	0.00000000	-185.10691395
-0.04178899	0.70146698	0.00000000	230.87367123
-1.16182154	-1.48163476	0.00000000	107.90447243
-2.37713566	-0.81881509	0.00000000	-38.29593275
-2.44031774	0.59060577	0.00000000	-6.90612122
-1.28611065	1.35334636	0.00000000	17.19445573
1.26584879	-1.08237463	0.00000000	59.11014555
1.37168419	-1.08237463	0.00000000	54.07786149
1.31876649	-1.13529233	0.00000000	16.78116620
1.31876649	-1.02945693	0.00000000	17.92504296
-0.05291770	-0.70208822	0.00000000	87.77632855
0.05291770	-0.70208822	0.00000000	87.75758922
0.00000000	-0.75500592	0.00000000	34.17575783
0.00000000	-0.64917052	0.00000000	37.28691504
2.05800137	0.04406596	0.00000000	-35.46836777
2.16383676	0.04406596	0.00000000	-28.72611478
2.11091906	-0.00885174	0.00000000	-110.47682429
2.11091906	0.09698366	0.00000000	-113.36244895
1.27232327	1.15754064	0.00000000	95.73565247
1.37815866	1.15754064	0.00000000	84.08127770
1.32524096	1.10462294	0.00000000	3.88432437
1.32524096	1.21045834	0.00000000	2.43721338
-0.09470669	0.70146698	0.00000000	1.21884680
0.01112871	0.70146698	0.00000000	-4.84260357
-0.04178899	0.64854929	0.00000000	-117.83013426
-0.04178899	0.75438469	0.00000000	-110.98354423
-1.21473924	-1.48163476	0.00000000	-28.55088893
-1.10890384	-1.48163476	0.00000000	-30.91579166
-1.16182154	-1.53455246	0.00000000	-21.28443748
-1.16182154	-1.42871706	0.00000000	-27.94591052
-2.43005336	-0.81881509	0.00000000	12.47308792
-2.32421796	-0.81881509	0.00000000	16.15974802
-2.37713566	-0.87173279	0.00000000	4.69167346
-2.37713566	-0.76589740	0.00000000	5.39751559
-2.49323545	0.59060577	0.00000000	8.57312308
-2.38740004	0.59060577	0.00000000	8.49089232
-2.44031774	0.53768808	0.00000000	-5.99875303
-2.44031774	0.64352347	0.00000000	-4.33945845
-1.33902835	1.35334636	0.00000000	5.59981652
-1.23319294	1.35334636	0.00000000	6.91494294
-1.28611065	1.30042866	0.00000000	-15.87187336
-1.28611065	1.40626406	0.00000000	-13.71092467
45 36751 # 272.1 nm,	(r2v6r1) 45 = 1Lb_v6 state		
0.06478505	0.06220829	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.6618344880E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-40.30269491
0.00000000	-0.70208822	0.00000000	-67.02870344
2.11091906	0.04406596	0.00000000	78.44835918
1.32524096	1.15754064	0.00000000	-50.48370380
-0.04178899	0.70146698	0.00000000	62.96554670
-1.16182154	-1.48163476	0.00000000	29.42849248

-2.37713566	-0.81881509	0.00000000	-10.44434530
-2.44031774	0.59060577	0.00000000	-1.88348760
-1.28611065	1.35334636	0.00000000	4.68939702
1.26584879	-1.08237463	0.00000000	16.12094879
1.37168419	-1.08237463	0.00000000	14.74850768
1.31876649	-1.13529233	0.00000000	4.57668169
1.31876649	-1.02945693	0.00000000	4.88864808
-0.05291770	-0.70208822	0.00000000	23.93899869
0.05291770	-0.70208822	0.00000000	23.93388797
0.00000000	-0.75500592	0.00000000	9.32066123
0.00000000	-0.64917052	0.00000000	10.16915865
2.05800137	0.04406596	0.00000000	-9.67319121
2.16383676	0.04406596	0.00000000	-7.83439494
2.11091906	-0.00885174	0.00000000	-30.13004299
2.11091906	0.09698366	0.00000000	-30.91703153
1.27232327	1.15754064	0.00000000	26.10972340
1.37815866	1.15754064	0.00000000	22.93125755
1.32524096	1.10462294	0.00000000	1.05936119
1.32524096	1.21045834	0.00000000	0.66469456
-0.09470669	0.70146698	0.00000000	0.33241276
0.01112871	0.70146698	0.00000000	-1.32071006
-0.04178899	0.64854929	0.00000000	-32.13549116
-0.04178899	0.75438469	0.00000000	-30.26823933
-1.21473924	-1.48163476	0.00000000	-7.78660607
-1.10890384	-1.48163476	0.00000000	-8.43157954
-1.16182154	-1.53455246	0.00000000	-5.80484658
-1.16182154	-1.42871706	0.00000000	-7.62161196
-2.43005336	-0.81881509	0.00000000	3.40175125
-2.32421796	-0.81881509	0.00000000	4.40720400
-2.37713566	-0.87173279	0.00000000	1.27954731
-2.37713566	-0.76589740	0.00000000	1.47204971
-2.49323545	0.59060577	0.00000000	2.33812448
-2.38740004	0.59060577	0.00000000	2.31569791
-2.44031774	0.53768808	0.00000000	-1.63602355
-2.44031774	0.64352347	0.00000000	-1.18348867
-1.33902835	1.35334636	0.00000000	1.52722269
-1.23319294	1.35334636	0.00000000	1.88589353
-1.28611065	1.30042866	0.00000000	-4.32869273
-1.28611065	1.40626406	0.00000000	-3.73934309
45 36933 # 270.8 nm, (r2v7r1) 45 = 1Lb_v7 state			
0.122372	0.117505	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.6618344880E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-76.12731260
0.00000000	-0.70208822	0.00000000	-126.60977316
2.11091906	0.04406596	0.00000000	148.18023401
1.32524096	1.15754064	0.00000000	-95.35810718
-0.04178899	0.70146698	0.00000000	118.93492154
-1.16182154	-1.48163476	0.00000000	55.58715246
-2.37713566	-0.81881509	0.00000000	-19.72820778
-2.44031774	0.59060577	0.00000000	-3.55769881
-1.28611065	1.35334636	0.00000000	8.85774992
1.26584879	-1.08237463	0.00000000	30.45068104
1.37168419	-1.08237463	0.00000000	27.85829228
1.31876649	-1.13529233	0.00000000	8.64484319
1.31876649	-1.02945693	0.00000000	9.23411304
-0.05291770	-0.70208822	0.00000000	45.21810864
0.05291770	-0.70208822	0.00000000	45.20845506
0.00000000	-0.75500592	0.00000000	17.60569343
0.00000000	-0.64917052	0.00000000	19.20841078
2.05800137	0.04406596	0.00000000	-18.27158340
2.16383676	0.04406596	0.00000000	-14.79830155
2.11091906	-0.00885174	0.00000000	-56.91230342
2.11091906	0.09698366	0.00000000	-58.39883734
1.27232327	1.15754064	0.00000000	49.31836642
1.37815866	1.15754064	0.00000000	43.31459760
1.32524096	1.10462294	0.00000000	2.00101558
1.32524096	1.21045834	0.00000000	1.25553417
-0.09470669	0.70146698	0.00000000	0.62789078
0.01112871	0.70146698	0.00000000	-2.49467456
-0.04178899	0.64854929	0.00000000	-60.70037219
-0.04178899	0.75438469	0.00000000	-57.17334096
-1.21473924	-1.48163476	0.00000000	-14.70803369
-1.10890384	-1.48163476	0.00000000	-15.92631692
-1.16182154	-1.53455246	0.00000000	-10.96471021
-1.16182154	-1.42871706	0.00000000	-14.39637815
-2.43005336	-0.81881509	0.00000000	6.42553014
-2.32421796	-0.81881509	0.00000000	8.32471867
-2.37713566	-0.87173279	0.00000000	2.41692269
-2.37713566	-0.76589740	0.00000000	2.78053834
-2.49323545	0.59060577	0.00000000	4.41645735
-2.38740004	0.59060577	0.00000000	4.37409605
-2.44031774	0.53768808	0.00000000	-3.09026671
-2.44031774	0.64352347	0.00000000	-2.23547859
-1.33902835	1.35334636	0.00000000	2.88475396
-1.23319294	1.35334636	0.00000000	3.56224333
-1.28611065	1.30042866	0.00000000	-8.17641961
-1.28611065	1.40626406	0.00000000	-7.06320362

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45 35088 # 285.0 nm, (r3v1r1) 45 = 1La_v1 state
-0.62355      0.698522      0.00000000 1.0      # electr. mom.
0.00000000      0.00000000      0.9507726948E-01      # magnet. mom.
1.31876649     -1.08237463      0.00000000      39.59439777
0.00000000     -0.70208822      0.00000000      10.85405556
2.11091906      0.04406596      0.00000000     -239.74808547
1.32524096      1.15754064      0.00000000      67.06770967
-0.04178899      0.70146698      0.00000000     -245.46820460
-1.16182154     -1.48163476      0.00000000     -10.51080187
-2.37713566     -0.81881509      0.00000000     -40.06565998
-2.44031774      0.59060577      0.00000000     -70.82267074
-1.28611065      1.35334636      0.00000000     239.90449604
1.26584879     -1.08237463      0.00000000     -44.49138627
1.37168419     -1.08237463      0.00000000     -39.78676751
1.31876649     -1.13529233      0.00000000      21.45537430
1.31876649     -1.02945693      0.00000000      23.11584854
-0.05291770     -0.70208822      0.00000000     -10.28323534
0.05291770     -0.70208822      0.00000000     -18.59177079
0.00000000     -0.75500592      0.00000000      11.99426129
0.00000000     -0.64917052      0.00000000      6.39082161
2.05800137      0.04406596      0.00000000      54.60740616
2.16383676      0.04406596      0.00000000      52.67722360
2.11091906     -0.00885174      0.00000000      66.12359676
2.11091906      0.09698366      0.00000000      66.04296670
1.27232327      1.15754064      0.00000000     -42.44981669
1.37815866      1.15754064      0.00000000     -37.90799347
1.32524096      1.10462294      0.00000000      7.68721283
1.32524096      1.21045834      0.00000000      5.42911142
-0.09470669      0.70146698      0.00000000     109.44907775
0.01112871      0.70146698      0.00000000     111.85325610
-0.04178899      0.64854929      0.00000000      9.05937962
-0.04178899      0.75438469      0.00000000     15.92633020
-1.21473924     -1.48163476      0.00000000     -11.30629578
-1.10890384     -1.48163476      0.00000000     -10.74419829
-1.16182154     -1.53455246      0.00000000      16.30644405
-1.16182154     -1.42871706      0.00000000      15.94736208
-2.43005336     -0.81881509      0.00000000     -42.28201185
-2.32421796     -0.81881509      0.00000000     -49.73694577
-2.37713566     -0.87173279      0.00000000      60.41085401
-2.37713566     -0.76589740      0.00000000      72.14151242
-2.49323545      0.59060577      0.00000000      8.70453522
-2.38740004      0.59060577      0.00000000     11.33115727
-2.44031774      0.53768808      0.00000000      23.16615646
-2.44031774      0.64352347      0.00000000      27.44921087
-1.33902835      1.35334636      0.00000000     -86.60118714
-1.23319294      1.35334636      0.00000000     -83.85325886
-1.28611065      1.30042866      0.00000000     -39.15929801
-1.28611065      1.40626406      0.00000000     -30.88016983

45 35872 # 278.8 nm, (r3v2r1) 45 = 1La_v2 state
-0.57979      0.649503      0.00000000 1.0      # electr. mom.
0.00000000      0.00000000      0.9507726948E-01      # magnet. mom.
1.31876649     -1.08237463      0.00000000      36.81584354
0.00000000     -0.70208822      0.00000000      10.09236745
2.11091906      0.04406596      0.00000000     -222.92365842
1.32524096      1.15754064      0.00000000      62.36120373
-0.04178899      0.70146698      0.00000000     -228.24236568
-1.16182154     -1.48163476      0.00000000     -9.77320174
-2.37713566     -0.81881509      0.00000000     -37.25403472
-2.44031774      0.59060577      0.00000000     -65.85265876
-1.28611065      1.35334636      0.00000000      223.06909281
1.26584879     -1.08237463      0.00000000     -41.36918372
1.37168419     -1.08237463      0.00000000     -36.99471365
1.31876649     -1.13529233      0.00000000      19.94973400
1.31876649     -1.02945693      0.00000000      21.49368373
-0.05291770     -0.70208822      0.00000000     -9.56160479
0.05291770     -0.70208822      0.00000000     -17.28708512
0.00000000     -0.75500592      0.00000000      11.15255874
0.00000000     -0.64917052      0.00000000      5.94234290
2.05800137      0.04406596      0.00000000      50.77530748
2.16383676      0.04406596      0.00000000      48.98057633
2.11091906     -0.00885174      0.00000000      61.48334435
2.11091906      0.09698366      0.00000000      61.40837255
1.27232327      1.15754064      0.00000000     -39.47088219
1.37815866      1.15754064      0.00000000     -35.24778340
1.32524096      1.10462294      0.00000000      7.14775929
1.32524096      1.21045834      0.00000000      5.04812115
-0.09470669      0.70146698      0.00000000     101.76844071
0.01112871      0.70146698      0.00000000     104.00390480
-0.04178899      0.64854929      0.00000000      8.42363368
-0.04178899      0.75438469      0.00000000     14.80869300
-1.21473924     -1.48163476      0.00000000     -10.51287152
-1.10890384     -1.48163476      0.00000000     -9.99021947
-1.16182154     -1.53455246      0.00000000      15.16213219
-1.16182154     -1.42871706      0.00000000      14.82824895
-2.43005336     -0.81881509      0.00000000     -39.31485312
-2.32421796     -0.81881509      0.00000000     -46.24663379
-2.37713566     -0.87173279      0.00000000      56.17149583

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-2.37713566	-0.76589740	0.00000000	67.07895015
-2.49323545	0.59060577	0.00000000	8.09369064
-2.38740004	0.59060577	0.00000000	10.53598834
-2.44031774	0.53768808	0.00000000	21.54046127
-2.44031774	0.64352347	0.00000000	25.52295045
-1.33902835	1.35334636	0.00000000	-80.52391085
-1.23319294	1.35334636	0.00000000	-77.96881964
-1.28611065	1.30042866	0.00000000	-36.41127709
-1.28611065	1.40626406	0.00000000	-28.71314037
45 36135 # 276.7 nm, (r3v3r1) 45 = 1La_v3 state			
-0.35006	0.392153	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.9507726948E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	22.22843383
0.00000000	-0.70208822	0.00000000	6.09350488
2.11091906	0.04406596	0.00000000	-134.59541640
1.32524096	1.15754064	0.00000000	37.65204753
-0.04178899	0.70146698	0.00000000	-137.80671136
-1.16182154	-1.48163476	0.00000000	-5.90080105
-2.37713566	-0.81881509	0.00000000	-22.49300209
-2.44031774	0.59060577	0.00000000	-39.76009585
-1.28611065	1.35334636	0.00000000	134.68322585
1.26584879	-1.08237463	0.00000000	-24.97762036
1.37168419	-1.08237463	0.00000000	-22.33643088
1.31876649	-1.13529233	0.00000000	12.04512241
1.31876649	-1.02945693	0.00000000	12.97731848
-0.05291770	-0.70208822	0.00000000	-5.77304440
0.05291770	-0.70208822	0.00000000	-10.43748535
0.00000000	-0.75500592	0.00000000	6.73362037
0.00000000	-0.64917052	0.00000000	3.58782967
2.05800137	0.04406596	0.00000000	30.65678942
2.16383676	0.04406596	0.00000000	29.57317816
2.11091906	-0.00885174	0.00000000	37.12201923
2.11091906	0.09698366	0.00000000	37.07675324
1.27232327	1.15754064	0.00000000	-23.83147604
1.37815866	1.15754064	0.00000000	-21.28168054
1.32524096	1.10462294	0.00000000	4.31562825
1.32524096	1.21045834	0.00000000	3.04792220
-0.09470669	0.70146698	0.00000000	61.44509628
0.01112871	0.70146698	0.00000000	62.79481044
-0.04178899	0.64854929	0.00000000	5.08596750
-0.04178899	0.75438469	0.00000000	8.94109766
-1.21473924	-1.48163476	0.00000000	-6.34739412
-1.10890384	-1.48163476	0.00000000	-6.03183062
-1.16182154	-1.53455246	0.00000000	9.15449491
-1.16182154	-1.42871706	0.00000000	8.95290503
-2.43005336	-0.81881509	0.00000000	-23.73726981
-2.32421796	-0.81881509	0.00000000	-27.92249587
-2.37713566	-0.87173279	0.00000000	33.91486541
-2.37713566	-0.76589740	0.00000000	40.50049820
-2.49323545	0.59060577	0.00000000	4.88675661
-2.38740004	0.59060577	0.00000000	6.36135145
-2.44031774	0.53768808	0.00000000	13.00556152
-2.44031774	0.64352347	0.00000000	15.41008329
-1.33902835	1.35334636	0.00000000	-48.61821032
-1.23319294	1.35334636	0.00000000	-47.07551375
-1.28611065	1.30042866	0.00000000	-21.98416730
-1.28611065	1.40626406	0.00000000	-17.33623569
45 36656 # 272.8 nm, (r3v4r1) 45 = 1La_v4 state			
-0.37194	0.416662	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.9507726948E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	23.61771095
0.00000000	-0.70208822	0.00000000	6.47434893
2.11091906	0.04406596	0.00000000	-143.00762993
1.32524096	1.15754064	0.00000000	40.00530050
-0.04178899	0.70146698	0.00000000	-146.41963082
-1.16182154	-1.48163476	0.00000000	-6.26960112
-2.37713566	-0.81881509	0.00000000	-23.89881472
-2.44031774	0.59060577	0.00000000	-42.24510184
-1.28611065	1.35334636	0.00000000	143.10092747
1.26584879	-1.08237463	0.00000000	-26.53872163
1.37168419	-1.08237463	0.00000000	-23.73245781
1.31876649	-1.13529233	0.00000000	12.79794256
1.31876649	-1.02945693	0.00000000	13.78840088
-0.05291770	-0.70208822	0.00000000	-6.13385968
0.05291770	-0.70208822	0.00000000	-11.08982819
0.00000000	-0.75500592	0.00000000	7.15447164
0.00000000	-0.64917052	0.00000000	3.81206903
2.05800137	0.04406596	0.00000000	32.57283876
2.16383676	0.04406596	0.00000000	31.42150180
2.11091906	-0.00885174	0.00000000	39.44214543
2.11091906	0.09698366	0.00000000	39.39405031
1.27232327	1.15754064	0.00000000	-25.32094329
1.37815866	1.15754064	0.00000000	-22.61178558
1.32524096	1.10462294	0.00000000	4.58535502
1.32524096	1.21045834	0.00000000	3.23841734
-0.09470669	0.70146698	0.00000000	65.28541480
0.01112871	0.70146698	0.00000000	66.71948610

-0.04178899	0.64854929	0.00000000	5.40384047
-0.04178899	0.75438469	0.00000000	9.49991626
-1.21473924	-1.48163476	0.00000000	-6.74410626
-1.10890384	-1.48163476	0.00000000	-6.40882003
-1.16182154	-1.53455246	0.00000000	9.72665084
-1.16182154	-1.42871706	0.00000000	9.51246159
-2.43005336	-0.81881509	0.00000000	-25.22084917
-2.32421796	-0.81881509	0.00000000	-29.66765186
-2.37713566	-0.87173279	0.00000000	36.03454450
-2.37713566	-0.76589740	0.00000000	43.03177934
-2.49323545	0.59060577	0.00000000	5.19217890
-2.38740004	0.59060577	0.00000000	6.75893592
-2.44031774	0.53768808	0.00000000	13.81840912
-2.44031774	0.64352347	0.00000000	16.37321350
-1.33902835	1.35334636	0.00000000	-51.65684847
-1.23319294	1.35334636	0.00000000	-50.01773336
-1.28611065	1.30042866	0.00000000	-23.35817776
-1.28611065	1.40626406	0.00000000	-18.41975042
45 36919 # 270.9 nm, (r3v1r1) 45 = 1La_v5 state			
-0.32818	0.367643	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.9507726948E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	20.83915672
0.00000000	-0.70208822	0.00000000	5.71266082
2.11091906	0.04406596	0.00000000	-126.18320288
1.32524096	1.15754064	0.00000000	35.29879456
-0.04178899	0.70146698	0.00000000	-129.19379190
-1.16182154	-1.48163476	0.00000000	-5.53200098
-2.37713566	-0.81881509	0.00000000	-21.08718946
-2.44031774	0.59060577	0.00000000	-37.27508986
-1.28611065	1.35334636	0.00000000	126.26552423
1.26584879	-1.08237463	0.00000000	-23.41651909
1.37168419	-1.08237463	0.00000000	-20.94040395
1.31876649	-1.13529233	0.00000000	11.29230226
1.31876649	-1.02945693	0.00000000	12.16623607
-0.05291770	-0.70208822	0.00000000	-5.41222913
0.05291770	-0.70208822	0.00000000	-9.78514252
0.00000000	-0.75500592	0.00000000	6.31276910
0.00000000	-0.64917052	0.00000000	3.36359032
2.05800137	0.04406596	0.00000000	28.74074008
2.16383676	0.04406596	0.00000000	27.72485453
2.11091906	-0.00885174	0.00000000	34.80189303
2.11091906	0.09698366	0.00000000	34.75945616
1.27232327	1.15754064	0.00000000	-22.34200879
1.37815866	1.15754064	0.00000000	-19.95157551
1.32524096	1.10462294	0.00000000	4.04590149
1.32524096	1.21045834	0.00000000	2.85742706
-0.09470669	0.70146698	0.00000000	57.60477776
0.01112871	0.70146698	0.00000000	58.87013479
-0.04178899	0.64854929	0.00000000	4.76809454
-0.04178899	0.75438469	0.00000000	8.38227905
-1.21473924	-1.48163476	0.00000000	-5.95068199
-1.10890384	-1.48163476	0.00000000	-5.65484121
-1.16182154	-1.53455246	0.00000000	8.58233897
-1.16182154	-1.42871706	0.00000000	8.39334846
-2.43005336	-0.81881509	0.00000000	-22.25369045
-2.32421796	-0.81881509	0.00000000	-26.17733988
-2.37713566	-0.87173279	0.00000000	31.79518632
-2.37713566	-0.76589740	0.00000000	37.96921706
-2.49323545	0.59060577	0.00000000	4.58133433
-2.38740004	0.59060577	0.00000000	5.96376698
-2.44031774	0.53768808	0.00000000	12.19271393
-2.44031774	0.64352347	0.00000000	14.44695309
-1.33902835	1.35334636	0.00000000	-45.57957218
-1.23319294	1.35334636	0.00000000	-44.13329414
-1.28611065	1.30042866	0.00000000	-20.61015685
-1.28611065	1.40626406	0.00000000	-16.25272096
45 37440 # 267.1 nm, (r3v2r1) 45 = 1La_v6 state			
-0.19691	0.220586	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.9507726948E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	12.50349403
0.00000000	-0.70208822	0.00000000	3.42759649
2.11091906	0.04406596	0.00000000	-75.70992173
1.32524096	1.15754064	0.00000000	21.17927674
-0.04178899	0.70146698	0.00000000	-77.51627514
-1.16182154	-1.48163476	0.00000000	-3.31920059
-2.37713566	-0.81881509	0.00000000	-12.65231368
-2.44031774	0.59060577	0.00000000	-22.36505392
-1.28611065	1.35334636	0.00000000	75.75931454
1.26584879	-1.08237463	0.00000000	-14.04991145
1.37168419	-1.08237463	0.00000000	-12.56424237
1.31876649	-1.13529233	0.00000000	6.77538136
1.31876649	-1.02945693	0.00000000	7.29974164
-0.05291770	-0.70208822	0.00000000	-3.24733748
0.05291770	-0.70208822	0.00000000	-5.87108551
0.00000000	-0.75500592	0.00000000	3.78766146
0.00000000	-0.64917052	0.00000000	2.01815419
2.05800137	0.04406596	0.00000000	17.24444405

2.16383676	0.04406596	0.00000000	16.63491272
2.11091906	-0.00885174	0.00000000	20.88113582
2.11091906	0.09698366	0.00000000	20.85567369
1.27232327	1.15754064	0.00000000	-13.40520527
1.37815866	1.15754064	0.00000000	-11.97094531
1.32524096	1.10462294	0.00000000	2.42754089
1.32524096	1.21045834	0.00000000	1.71445624
-0.09470669	0.70146698	0.00000000	34.56286666
0.01112871	0.70146698	0.00000000	35.32208088
-0.04178899	0.64854929	0.00000000	2.86085672
-0.04178899	0.75438469	0.00000000	5.02936743
-1.21473924	-1.48163476	0.00000000	-3.57040920
-1.10890384	-1.48163476	0.00000000	-3.39290472
-1.16182154	-1.53455246	0.00000000	5.14940338
-1.16182154	-1.42871706	0.00000000	5.03600908
-2.43005336	-0.81881509	0.00000000	-13.35221427
-2.32421796	-0.81881509	0.00000000	-15.70640393
-2.37713566	-0.87173279	0.00000000	19.07711179
-2.37713566	-0.76589740	0.00000000	22.78153024
-2.49323545	0.59060577	0.00000000	2.74880060
-2.38740004	0.59060577	0.00000000	3.57826019
-2.44031774	0.53768808	0.00000000	7.31562836
-2.44031774	0.64352347	0.00000000	8.66817185
-1.33902835	1.35334636	0.00000000	-27.34774331
-1.23319294	1.35334636	0.00000000	-26.47997648
-1.28611065	1.30042866	0.00000000	-12.36609411
-1.28611065	1.40626406	0.00000000	-9.75163258
45 37966 # 263.4 nm, (r3v3r1) 45 = 1La_v7 state			
-0.20785	0.232841	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.9507726948E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	13.19813259
0.00000000	-0.70208822	0.00000000	3.61801852
2.11091906	0.04406596	0.00000000	-79.91602849
1.32524096	1.15754064	0.00000000	22.35590322
-0.04178899	0.70146698	0.00000000	-81.82273487
-1.16182154	-1.48163476	0.00000000	-3.50360062
-2.37713566	-0.81881509	0.00000000	-13.35521999
-2.44031774	0.59060577	0.00000000	-23.60755691
-1.28611065	1.35334636	0.00000000	79.96816535
1.26584879	-1.08237463	0.00000000	-14.83046209
1.37168419	-1.08237463	0.00000000	-13.26225584
1.31876649	-1.13529233	0.00000000	7.15179143
1.31876649	-1.02945693	0.00000000	7.70528285
-0.05291770	-0.70208822	0.00000000	-3.42774511
0.05291770	-0.70208822	0.00000000	-6.19725693
0.00000000	-0.75500592	0.00000000	3.99808710
0.00000000	-0.64917052	0.00000000	2.13027387
2.05800137	0.04406596	0.00000000	18.20246872
2.16383676	0.04406596	0.00000000	17.55907453
2.11091906	-0.00885174	0.00000000	22.04119892
2.11091906	0.09698366	0.00000000	22.01432223
1.27232327	1.15754064	0.00000000	-14.14993890
1.37815866	1.15754064	0.00000000	-12.63599782
1.32524096	1.10462294	0.00000000	2.56240428
1.32524096	1.21045834	0.00000000	1.80970381
-0.09470669	0.70146698	0.00000000	36.48302592
0.01112871	0.70146698	0.00000000	37.28441870
-0.04178899	0.64854929	0.00000000	3.01979321
-0.04178899	0.75438469	0.00000000	5.30877673
-1.21473924	-1.48163476	0.00000000	-3.76876526
-1.10890384	-1.48163476	0.00000000	-3.58139943
-1.16182154	-1.53455246	0.00000000	5.43548135
-1.16182154	-1.42871706	0.00000000	5.31578736
-2.43005336	-0.81881509	0.00000000	-14.09400395
-2.32421796	-0.81881509	0.00000000	-16.57898192
-2.37713566	-0.87173279	0.00000000	20.13695134
-2.37713566	-0.76589740	0.00000000	24.04717081
-2.49323545	0.59060577	0.00000000	2.90151174
-2.38740004	0.59060577	0.00000000	3.77705242
-2.44031774	0.53768808	0.00000000	7.72205215
-2.44031774	0.64352347	0.00000000	9.14973696
-1.33902835	1.35334636	0.00000000	-28.86706238
-1.23319294	1.35334636	0.00000000	-27.95108629
-1.28611065	1.30042866	0.00000000	-13.05309934
-1.28611065	1.40626406	0.00000000	-10.29338994
45 38224 # 261.6 nm, (r3v4r1) 45 = 1La_v8 state			
-0.08752	0.087038	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.9507726948E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	5.55710846
0.00000000	-0.70208822	0.00000000	1.52337622
2.11091906	0.04406596	0.00000000	-33.64885410
1.32524096	1.15754064	0.00000000	9.41301188
-0.04178899	0.70146698	0.00000000	-34.45167784
-1.16182154	-1.48163476	0.00000000	-1.47520026
-2.37713566	-0.81881509	0.00000000	-5.62325052
-2.44031774	0.59060577	0.00000000	-9.94002396
-1.28611065	1.35334636	0.00000000	33.67080646

1.26584879	-1.08237463	0.00000000	-6.24440509
1.37168419	-1.08237463	0.00000000	-5.58410772
1.31876649	-1.13529233	0.00000000	3.01128060
1.31876649	-1.02945693	0.00000000	3.24432962
-0.05291770	-0.70208822	0.00000000	-1.44326110
0.05291770	-0.70208822	0.00000000	-2.60937134
0.00000000	-0.75500592	0.00000000	1.68340509
0.00000000	-0.64917052	0.00000000	0.89695742
2.05800137	0.04406596	0.00000000	7.66419736
2.16383676	0.04406596	0.00000000	7.39329454
2.11091906	-0.00885174	0.00000000	9.28050481
2.11091906	0.09698366	0.00000000	9.26918831
1.27232327	1.15754064	0.00000000	-5.95786901
1.37815866	1.15754064	0.00000000	-5.32042014
1.32524096	1.10462294	0.00000000	1.07890706
1.32524096	1.21045834	0.00000000	0.76198055
-0.09470669	0.70146698	0.00000000	15.36127407
0.01112871	0.70146698	0.00000000	15.69870261
-0.04178899	0.64854929	0.00000000	1.27149188
-0.04178899	0.75438469	0.00000000	2.23527441
-1.21473924	-1.48163476	0.00000000	-1.58684853
-1.10890384	-1.48163476	0.00000000	-1.50795766
-1.16182154	-1.53455246	0.00000000	2.28862373
-1.16182154	-1.42871706	0.00000000	2.23822626
-2.43005336	-0.81881509	0.00000000	-5.93431745
-2.32421796	-0.81881509	0.00000000	-6.98062397
-2.37713566	-0.87173279	0.00000000	8.47871635
-2.37713566	-0.76589740	0.00000000	10.12512455
-2.49323545	0.59060577	0.00000000	1.22168915
-2.38740004	0.59060577	0.00000000	1.59033786
-2.44031774	0.53768808	0.00000000	3.25139038
-2.44031774	0.64352347	0.00000000	3.85252082
-1.33902835	1.35334636	0.00000000	-12.15455258
-1.23319294	1.35334636	0.00000000	-11.76887844
-1.28611065	1.30042866	0.00000000	-5.49604183
-1.28611065	1.40626406	0.00000000	-4.33405892
45 39013 # 256.3 nm, (r3v4r1) 45 = 1La_v9 state			
-0.10939	0.122548	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.9507726948E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	6.94638557
0.00000000	-0.70208822	0.00000000	1.90422027
2.11091906	0.04406596	0.00000000	-42.06106763
1.32524096	1.15754064	0.00000000	11.76626485
-0.04178899	0.70146698	0.00000000	-43.06459730
-1.16182154	-1.48163476	0.00000000	-1.84400033
-2.37713566	-0.81881509	0.00000000	-7.02906315
-2.44031774	0.59060577	0.00000000	-12.42502995
-1.28611065	1.35334636	0.00000000	42.08850808
1.26584879	-1.08237463	0.00000000	-7.80550636
1.37168419	-1.08237463	0.00000000	-6.98013465
1.31876649	-1.13529233	0.00000000	3.76410075
1.31876649	-1.02945693	0.00000000	4.05541202
-0.05291770	-0.70208822	0.00000000	-1.80407638
0.05291770	-0.70208822	0.00000000	-3.26171417
0.00000000	-0.75500592	0.00000000	2.10425637
0.00000000	-0.64917052	0.00000000	1.12119677
2.05800137	0.04406596	0.00000000	9.58024669
2.16383676	0.04406596	0.00000000	9.24161818
2.11091906	-0.00885174	0.00000000	11.60063101
2.11091906	0.09698366	0.00000000	11.58648539
1.27232327	1.15754064	0.00000000	-7.44733626
1.37815866	1.15754064	0.00000000	-6.65052517
1.32524096	1.10462294	0.00000000	1.34863383
1.32524096	1.21045834	0.00000000	0.95247569
-0.09470669	0.70146698	0.00000000	19.20159259
0.01112871	0.70146698	0.00000000	19.62337826
-0.04178899	0.64854929	0.00000000	1.58936485
-0.04178899	0.75438469	0.00000000	2.79409302
-1.21473924	-1.48163476	0.00000000	-1.98356066
-1.10890384	-1.48163476	0.00000000	-1.88494707
-1.16182154	-1.53455246	0.00000000	2.86077966
-1.16182154	-1.42871706	0.00000000	2.79778282
-2.43005336	-0.81881509	0.00000000	-7.41789682
-2.32421796	-0.81881509	0.00000000	-8.72577996
-2.37713566	-0.87173279	0.00000000	10.59839544
-2.37713566	-0.76589740	0.00000000	12.65640569
-2.49323545	0.59060577	0.00000000	1.52711144
-2.38740004	0.59060577	0.00000000	1.98792233
-2.44031774	0.53768808	0.00000000	4.06423798
-2.44031774	0.64352347	0.00000000	4.81565103
-1.33902835	1.35334636	0.00000000	-15.19319073
-1.23319294	1.35334636	0.00000000	-14.71109805
-1.28611065	1.30042866	0.00000000	-6.87005228
-1.28611065	1.40626406	0.00000000	-5.41757365
45 48951.0 # 204.3 nm, (r7r1) 45 = 1Bb state			
3.63207311	-2.46606417	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.8170710246E-01	# magnet. mom.

1.31876649	-1.08237463	0.00000000	273.58236816
0.00000000	-0.70208822	0.00000000	-265.65930610
2.11091906	0.04406596	0.00000000	-115.47421142
1.32524096	1.15754064	0.00000000	0.23796456
-0.04178899	0.70146698	0.00000000	-361.15542547
-1.16182154	-1.48163476	0.00000000	-60.38212469
-2.37713566	-0.81881509	0.00000000	54.11125387
-2.44031774	0.59060577	0.00000000	-40.47837144
-1.28611065	1.35334636	0.00000000	-176.05929730
1.26584879	-1.08237463	0.00000000	-120.18342346
1.37168419	-1.08237463	0.00000000	-112.55475106
1.31876649	-1.13529233	0.00000000	-16.55443680
1.31876649	-1.02945693	0.00000000	-27.40340530
-0.05291770	-0.70208822	0.00000000	-15.24288341
0.05291770	-0.70208822	0.00000000	21.41905675
0.00000000	-0.75500592	0.00000000	121.86345384
0.00000000	-0.64917052	0.00000000	141.63808133
2.05800137	0.04406596	0.00000000	-165.43904117
2.16383676	0.04406596	0.00000000	-146.56078618
2.11091906	-0.00885174	0.00000000	235.05330168
2.11091906	0.09698366	0.00000000	193.56262186
1.27232327	1.15754064	0.00000000	-72.11298134
1.37815866	1.15754064	0.00000000	-66.98146392
1.32524096	1.10462294	0.00000000	76.18560024
1.32524096	1.21045834	0.00000000	63.46618186
-0.09470669	0.70146698	0.00000000	231.75718234
0.01112871	0.70146698	0.00000000	209.07036739
-0.04178899	0.64854929	0.00000000	-58.60513608
-0.04178899	0.75438469	0.00000000	-22.60532597
-1.21473924	-1.48163476	0.00000000	3.82053778
-1.10890384	-1.48163476	0.00000000	-0.67954829
-1.16182154	-1.53455246	0.00000000	23.40262949
-1.16182154	-1.42871706	0.00000000	34.96314259
-2.43005336	-0.81881509	0.00000000	-13.30868530
-2.32421796	-0.81881509	0.00000000	-20.66109768
-2.37713566	-0.87173279	0.00000000	-9.86099971
-2.37713566	-0.76589740	0.00000000	-11.01732744
-2.49323545	0.59060577	0.00000000	22.32187454
-2.38740004	0.59060577	0.00000000	24.65745350
-2.44031774	0.53768808	0.00000000	-3.42862325
-2.44031774	0.64352347	0.00000000	-2.95631741
-1.33902835	1.35334636	0.00000000	57.77673394
-1.23319294	1.35334636	0.00000000	54.19642608
-1.28611065	1.30042866	0.00000000	26.87626915
-1.28611065	1.40626406	0.00000000	35.40246936
45 51032.0 # 196.0 nm, (r8r1) 45 = 1Ba state			
3.62907333	2.12605217	0.00000000	1.0 # electr. mom.
0.00000000	0.00000000	0.7736875962	# magnet. mom.
1.31876649	-1.08237463	0.00000000	41.08026403
0.00000000	-0.70208822	0.00000000	-343.80311510
2.11091906	0.04406596	0.00000000	524.75399578
1.32524096	1.15754064	0.00000000	-141.34580429
-0.04178899	0.70146698	0.00000000	320.58709099
-1.16182154	-1.48163476	0.00000000	-208.87443946
-2.37713566	-0.81881509	0.00000000	-375.25407322
-2.44031774	0.59060577	0.00000000	-11.29418962
-1.28611065	1.35334636	0.00000000	232.68651542
1.26584879	-1.08237463	0.00000000	-3.15269424
1.37168419	-1.08237463	0.00000000	1.42337698
1.31876649	-1.13529233	0.00000000	-18.07970088
1.31876649	-1.02945693	0.00000000	-21.54373656
-0.05291770	-0.70208822	0.00000000	258.42064886
0.05291770	-0.70208822	0.00000000	265.34171789
0.00000000	-0.75500592	0.00000000	-78.67097654
0.00000000	-0.64917052	0.00000000	-102.30132562
2.05800137	0.04406596	0.00000000	-137.57776229
2.16383676	0.04406596	0.00000000	-124.76790816
2.11091906	-0.00885174	0.00000000	-132.17957971
2.11091906	0.09698366	0.00000000	-130.18179466
1.27232327	1.15754064	0.00000000	11.94680750
1.37815866	1.15754064	0.00000000	14.20895232
1.32524096	1.10462294	0.00000000	63.68987227
1.32524096	1.21045834	0.00000000	52.27207022
-0.09470669	0.70146698	0.00000000	-254.72888904
0.01112871	0.70146698	0.00000000	-247.66321642
-0.04178899	0.64854929	0.00000000	100.91234117
-0.04178899	0.75438469	0.00000000	81.26213131
-1.21473924	-1.48163476	0.00000000	63.19609210
-1.10890384	-1.48163476	0.00000000	67.34083464
-1.16182154	-1.53455246	0.00000000	38.93285534
-1.16182154	-1.42871706	0.00000000	38.80641912
-2.43005336	-0.81881509	0.00000000	41.08805155
-2.32421796	-0.81881509	0.00000000	39.60116971
-2.37713566	-0.87173279	0.00000000	138.02162731
-2.37713566	-0.76589740	0.00000000	157.11609917
-2.49323545	0.59060577	0.00000000	11.11832798
-2.38740004	0.59060577	0.00000000	8.46978019

-2.44031774	0.53768808	0.00000000	-11.23878984
-2.44031774	0.64352347	0.00000000	1.30995821
-1.33902835	1.35334636	0.00000000	-88.14937474
-1.23319294	1.35334636	0.00000000	-87.46272826
-1.28611065	1.30042866	0.00000000	-22.34592149
-1.28611065	1.40626406	0.00000000	-32.97098002
&TRANSITION 2->...			
0	0.0 # (r2v2r2v1) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v3r2v1) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v4r2v1) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v5r2v1) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v6r2v1) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v7r2v1) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
45	2657.0 # 737.7 nm, (r3v1r2v1) 45		
	0.133678	0.254709	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	-1.664952771 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -400.58815753
	0.00000000	-0.70208822	0.00000000 742.49707019
	2.11091906	0.04406596	0.00000000 118.24790001
	1.32524096	1.15754064	0.00000000 -450.41464296
	-0.04178899	0.70146698	0.00000000 788.30948850
	-1.16182154	-1.48163476	0.00000000 -245.25217239
	-2.37713566	-0.81881509	0.00000000 38.43347860
	-2.44031774	0.59060577	0.00000000 37.17212963
	-1.28611065	1.35334636	0.00000000 -439.38764308
	1.26584879	-1.08237463	0.00000000 102.68215677
	1.37168419	-1.08237463	0.00000000 88.16474334
	1.31876649	-1.13529233	0.00000000 95.71141240
	1.31876649	-1.02945693	0.00000000 116.69708925
	-0.05291770	-0.70208822	0.00000000 -180.59242258
	0.05291770	-0.70208822	0.00000000 -188.06104126
	0.00000000	-0.75500592	0.00000000 -189.81981270
	0.00000000	-0.64917052	0.00000000 -188.00211461
	2.05800137	0.04406596	0.00000000 -34.95118913
	2.16383676	0.04406596	0.00000000 -17.66341430
	2.11091906	-0.00885174	0.00000000 -30.96074422
	2.11091906	0.09698366	0.00000000 -36.79812556
	1.27232327	1.15754064	0.00000000 133.59851462
	1.37815866	1.15754064	0.00000000 118.33135476
	1.32524096	1.10462294	0.00000000 113.96373062
	1.32524096	1.21045834	0.00000000 88.10090515
	-0.09470669	0.70146698	0.00000000 -377.53681829
	0.01112871	0.70146698	0.00000000 -382.91017511
	-0.04178899	0.64854929	0.00000000 -3.59985621
	-0.04178899	0.75438469	0.00000000 -27.55377330
	-1.21473924	-1.48163476	0.00000000 77.93346901
	-1.10890384	-1.48163476	0.00000000 86.46891455
	-1.16182154	-1.53455246	0.00000000 36.63881285
	-1.16182154	-1.42871706	0.00000000 45.76091746
	-2.43005336	-0.81881509	0.00000000 -12.46217516
	-2.32421796	-0.81881509	0.00000000 -16.56422108
	-2.37713566	-0.87173279	0.00000000 -5.09089085
	-2.37713566	-0.76589740	0.00000000 -4.68551970
	-2.49323545	0.59060577	0.00000000 -29.25284975
	-2.38740004	0.59060577	0.00000000 -38.68013971
	-2.44031774	0.53768808	0.00000000 15.22333706
	-2.44031774	0.64352347	0.00000000 14.79157244
	-1.33902835	1.35334636	0.00000000 82.13914818
	-1.23319294	1.35334636	0.00000000 90.04681439
	-1.28611065	1.30042866	0.00000000 147.93525348
	-1.28611065	1.40626406	0.00000000 121.97968616
45	2657.0 # 737.7 nm, (r3v2r2v1) 45		
	0.124297	0.236835	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	-1.664952771 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -372.47670787
	0.00000000	-0.70208822	0.00000000 690.39201263
	2.11091906	0.04406596	0.00000000 109.94980176
	1.32524096	1.15754064	0.00000000 -418.80659784
	-0.04178899	0.70146698	0.00000000 732.98952439
	-1.16182154	-1.48163476	0.00000000 -228.04149362
	-2.37713566	-0.81881509	0.00000000 35.73639238
	-2.44031774	0.59060577	0.00000000 34.56355913
	-1.28611065	1.35334636	0.00000000 -408.55342251
	1.26584879	-1.08237463	0.00000000 95.47639138
	1.37168419	-1.08237463	0.00000000 81.97774381

1.31876649	-1.13529233	0.00000000	88.99482206
1.31876649	-1.02945693	0.00000000	108.50781983
-0.05291770	-0.70208822	0.00000000	-167.91927012
0.05291770	-0.70208822	0.00000000	-174.86377520
0.00000000	-0.75500592	0.00000000	-176.49912409
0.00000000	-0.64917052	0.00000000	-174.80898376
2.05800137	0.04406596	0.00000000	-32.49847411
2.16383676	0.04406596	0.00000000	-16.42387645
2.11091906	-0.00885174	0.00000000	-28.78806042
2.11091906	0.09698366	0.00000000	-34.21580095
1.27232327	1.15754064	0.00000000	124.22318026
1.37815866	1.15754064	0.00000000	110.02740004
1.32524096	1.10462294	0.00000000	105.96627584
1.32524096	1.21045834	0.00000000	81.91838549
-0.09470669	0.70146698	0.00000000	-351.04300648
0.01112871	0.70146698	0.00000000	-356.03928563
-0.04178899	0.64854929	0.00000000	-3.34723472
-0.04178899	0.75438469	0.00000000	-25.62017517
-1.21473924	-1.48163476	0.00000000	72.46445364
-1.10890384	-1.48163476	0.00000000	80.40092054
-1.16182154	-1.53455246	0.00000000	34.06766808
-1.16182154	-1.42871706	0.00000000	42.54962501
-2.43005336	-0.81881509	0.00000000	-11.58763656
-2.32421796	-0.81881509	0.00000000	-15.40181960
-2.37713566	-0.87173279	0.00000000	-4.73363536
-2.37713566	-0.76589740	0.00000000	-4.35671130
-2.49323545	0.59060577	0.00000000	-27.20001819
-2.38740004	0.59060577	0.00000000	-35.96574394
-2.44031774	0.53768808	0.00000000	14.15503270
-2.44031774	0.64352347	0.00000000	13.75356736
-1.33902835	1.35334636	0.00000000	76.37499743
-1.23319294	1.35334636	0.00000000	83.72773969
-1.28611065	1.30042866	0.00000000	137.55383218
-1.28611065	1.40626406	0.00000000	113.41970819
45	2657.0 # 737.7 nm, (r3v3r2v1) 45		
0.075047	0.142994	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-224.89159721
0.00000000	-0.70208822	0.00000000	416.84046046
2.11091906	0.04406596	0.00000000	66.38478597
1.32524096	1.15754064	0.00000000	-252.86436096
-0.04178899	0.70146698	0.00000000	442.55971284
-1.16182154	-1.48163476	0.00000000	-137.68543011
-2.37713566	-0.81881509	0.00000000	21.57668974
-2.44031774	0.59060577	0.00000000	20.86856400
-1.28611065	1.35334636	0.00000000	-246.67376454
1.26584879	-1.08237463	0.00000000	57.64612310
1.37168419	-1.08237463	0.00000000	49.49599626
1.31876649	-1.13529233	0.00000000	53.73272275
1.31876649	-1.02945693	0.00000000	65.51415537
-0.05291770	-0.70208822	0.00000000	-101.38521969
0.05291770	-0.70208822	0.00000000	-105.57812842
0.00000000	-0.75500592	0.00000000	-106.56550888
0.00000000	-0.64917052	0.00000000	-105.54504680
2.05800137	0.04406596	0.00000000	-19.62172021
2.16383676	0.04406596	0.00000000	-9.91630276
2.11091906	-0.00885174	0.00000000	-17.38147044
2.11091906	0.09698366	0.00000000	-20.65859680
1.27232327	1.15754064	0.00000000	75.00267487
1.37815866	1.15754064	0.00000000	66.43163776
1.32524096	1.10462294	0.00000000	63.97963824
1.32524096	1.21045834	0.00000000	49.46015728
-0.09470669	0.70146698	0.00000000	-211.95049448
0.01112871	0.70146698	0.00000000	-214.96711585
-0.04178899	0.64854929	0.00000000	-2.02097191
-0.04178899	0.75438469	0.00000000	-15.46878501
-1.21473924	-1.48163476	0.00000000	43.75212295
-1.10890384	-1.48163476	0.00000000	48.54395203
-1.16182154	-1.53455246	0.00000000	20.56915809
-1.16182154	-1.42871706	0.00000000	25.69033963
-2.43005336	-0.81881509	0.00000000	-6.99630886
-2.32421796	-0.81881509	0.00000000	-9.29921183
-2.37713566	-0.87173279	0.00000000	-2.85804399
-2.37713566	-0.76589740	0.00000000	-2.63046720
-2.49323545	0.59060577	0.00000000	-16.42265249
-2.38740004	0.59060577	0.00000000	-21.71516615
-2.44031774	0.53768808	0.00000000	8.54643484
-2.44031774	0.64352347	0.00000000	8.30404067
-1.33902835	1.35334636	0.00000000	46.11320599
-1.23319294	1.35334636	0.00000000	50.55259755
-1.28611065	1.30042866	0.00000000	83.05137037
-1.28611065	1.40626406	0.00000000	68.47982381
45	2657.0 # 737.7 nm, (r3v4r2v1) 45		
0.079738	0.151932	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-238.94732203
0.00000000	-0.70208822	0.00000000	442.89298923

2.11091906	0.04406596	0.00000000	70.53383509
1.32524096	1.15754064	0.00000000	-268.66838352
-0.04178899	0.70146698	0.00000000	470.21969489
-1.16182154	-1.48163476	0.00000000	-146.29076949
-2.37713566	-0.81881509	0.00000000	22.92523285
-2.44031774	0.59060577	0.00000000	22.17284925
-1.28611065	1.35334636	0.00000000	-262.09087482
1.26584879	-1.08237463	0.00000000	61.24900579
1.37168419	-1.08237463	0.00000000	52.58949603
1.31876649	-1.13529233	0.00000000	57.09101792
1.31876649	-1.02945693	0.00000000	69.60879008
-0.05291770	-0.70208822	0.00000000	-107.72179592
0.05291770	-0.70208822	0.00000000	-112.17676145
0.00000000	-0.75500592	0.00000000	-113.22585319
0.00000000	-0.64917052	0.00000000	-112.14161222
2.05800137	0.04406596	0.00000000	-20.84807773
2.16383676	0.04406596	0.00000000	-10.53607169
2.11091906	-0.00885174	0.00000000	-18.46781234
2.11091906	0.09698366	0.00000000	-21.94975910
1.27232327	1.15754064	0.00000000	79.69034205
1.37815866	1.15754064	0.00000000	70.58361512
1.32524096	1.10462294	0.00000000	67.97836563
1.32524096	1.21045834	0.00000000	52.55141711
-0.09470669	0.70146698	0.00000000	-225.19740039
0.01112871	0.70146698	0.00000000	-228.40256059
-0.04178899	0.64854929	0.00000000	-2.14728265
-0.04178899	0.75438469	0.00000000	-16.43558407
-1.21473924	-1.48163476	0.00000000	46.48663064
-1.10890384	-1.48163476	0.00000000	51.57794903
-1.16182154	-1.53455246	0.00000000	21.85473047
-1.16182154	-1.42871706	0.00000000	27.29598585
-2.43005336	-0.81881509	0.00000000	-7.43357817
-2.32421796	-0.81881509	0.00000000	-9.88041257
-2.37713566	-0.87173279	0.00000000	-3.03667174
-2.37713566	-0.76589740	0.00000000	-2.79487140
-2.49323545	0.59060577	0.00000000	-17.44906827
-2.38740004	0.59060577	0.00000000	-23.07236403
-2.44031774	0.53768808	0.00000000	9.08058702
-2.44031774	0.64352347	0.00000000	8.82304321
-1.33902835	1.35334636	0.00000000	48.99528137
-1.23319294	1.35334636	0.00000000	53.71213490
-1.28611065	1.30042866	0.00000000	88.24208102
-1.28611065	1.40626406	0.00000000	72.75981280
45 2657.0 # 737.7 nm, (r3v5r2v1) 45			
0.070357	0.134057	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-210.83587238
0.00000000	-0.70208822	0.00000000	390.78793168
2.11091906	0.04406596	0.00000000	62.23573685
1.32524096	1.15754064	0.00000000	-237.06033840
-0.04178899	0.70146698	0.00000000	414.89973079
-1.16182154	-1.48163476	0.00000000	-129.08009073
-2.37713566	-0.81881509	0.00000000	20.22814663
-2.44031774	0.59060577	0.00000000	19.56427875
-1.28611065	1.35334636	0.00000000	-231.25665425
1.26584879	-1.08237463	0.00000000	54.04324040
1.37168419	-1.08237463	0.00000000	46.40249650
1.31876649	-1.13529233	0.00000000	50.37442758
1.31876649	-1.02945693	0.00000000	61.41952066
-0.05291770	-0.70208822	0.00000000	-95.04864346
0.05291770	-0.70208822	0.00000000	-98.97949540
0.00000000	-0.75500592	0.00000000	-99.90516458
0.00000000	-0.64917052	0.00000000	-98.94848137
2.05800137	0.04406596	0.00000000	-18.39536270
2.16383676	0.04406596	0.00000000	-9.29653384
2.11091906	-0.00885174	0.00000000	-16.29512854
2.11091906	0.09698366	0.00000000	-19.36743450
1.27232327	1.15754064	0.00000000	70.31500770
1.37815866	1.15754064	0.00000000	62.27966040
1.32524096	1.10462294	0.00000000	59.98091085
1.32524096	1.21045834	0.00000000	46.36889745
-0.09470669	0.70146698	0.00000000	-198.70358858
0.01112871	0.70146698	0.00000000	-201.53167111
-0.04178899	0.64854929	0.00000000	-1.89466116
-0.04178899	0.75438469	0.00000000	-14.50198595
-1.21473924	-1.48163476	0.00000000	41.01761527
-1.10890384	-1.48163476	0.00000000	45.50995502
-1.16182154	-1.53455246	0.00000000	19.28358571
-1.16182154	-1.42871706	0.00000000	24.08469340
-2.43005336	-0.81881509	0.00000000	-6.55903956
-2.32421796	-0.81881509	0.00000000	-8.71801109
-2.37713566	-0.87173279	0.00000000	-2.67941624
-2.37713566	-0.76589740	0.00000000	-2.46606300
-2.49323545	0.59060577	0.00000000	-15.39623671
-2.38740004	0.59060577	0.00000000	-20.35796827
-2.44031774	0.53768808	0.00000000	8.01228266
-2.44031774	0.64352347	0.00000000	7.78503813

-1.33902835	1.35334636	0.00000000	43.23113062
-1.23319294	1.35334636	0.00000000	47.39306020
-1.28611065	1.30042866	0.00000000	77.86065972
-1.28611065	1.40626406	0.00000000	64.19983482
45 2657.0 # 737.7 nm, (r3v6r2v1) 45			
0.042214	0.080434	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-126.50152343
0.00000000	-0.70208822	0.00000000	234.47275901
2.11091906	0.04406596	0.00000000	37.34144211
1.32524096	1.15754064	0.00000000	-142.23620304
-0.04178899	0.70146698	0.00000000	248.93983847
-1.16182154	-1.48163476	0.00000000	-77.44805444
-2.37713566	-0.81881509	0.00000000	12.13688798
-2.44031774	0.59060577	0.00000000	11.73856725
-1.28611065	1.35334636	0.00000000	-138.75399255
1.26584879	-1.08237463	0.00000000	32.42594424
1.37168419	-1.08237463	0.00000000	27.84149790
1.31876649	-1.13529233	0.00000000	30.22465655
1.31876649	-1.02945693	0.00000000	36.85171240
-0.05291770	-0.70208822	0.00000000	-57.02918608
0.05291770	-0.70208822	0.00000000	-59.38769724
0.00000000	-0.75500592	0.00000000	-59.94309875
0.00000000	-0.64917052	0.00000000	-59.36908882
2.05800137	0.04406596	0.00000000	-11.03721762
2.16383676	0.04406596	0.00000000	-5.57792030
2.11091906	-0.00885174	0.00000000	-9.77707712
2.11091906	0.09698366	0.00000000	-11.62046070
1.27232327	1.15754064	0.00000000	42.18900462
1.37815866	1.15754064	0.00000000	37.36779624
1.32524096	1.10462294	0.00000000	35.98854651
1.32524096	1.21045834	0.00000000	27.82133847
-0.09470669	0.70146698	0.00000000	-119.22215315
0.01112871	0.70146698	0.00000000	-120.91900267
-0.04178899	0.64854929	0.00000000	-1.13679670
-0.04178899	0.75438469	0.00000000	-8.70119157
-1.21473924	-1.48163476	0.00000000	24.61056916
-1.10890384	-1.48163476	0.00000000	27.30597301
-1.16182154	-1.53455246	0.00000000	11.57015142
-1.16182154	-1.42871706	0.00000000	14.45081604
-2.43005336	-0.81881509	0.00000000	-3.93542374
-2.32421796	-0.81881509	0.00000000	-5.23080666
-2.37713566	-0.87173279	0.00000000	-1.60764974
-2.37713566	-0.76589740	0.00000000	-1.47963780
-2.49323545	0.59060577	0.00000000	-9.23774203
-2.38740004	0.59060577	0.00000000	-12.21478096
-2.44031774	0.53768808	0.00000000	4.80736960
-2.44031774	0.64352347	0.00000000	4.67102288
-1.33902835	1.35334636	0.00000000	25.93867837
-1.23319294	1.35334636	0.00000000	28.43583612
-1.28611065	1.30042866	0.00000000	46.71639583
-1.28611065	1.40626406	0.00000000	38.51990089
45 2657.0 # 737.7 nm, (r3v7r2v1) 45			
0.084903	0.018762	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-133.52938584
0.00000000	-0.70208822	0.00000000	247.49902340
2.11091906	0.04406596	0.00000000	39.41596667
1.32524096	1.15754064	0.00000000	-150.13821432
-0.04178899	0.70146698	0.00000000	262.76982950
-1.16182154	-1.48163476	0.00000000	-81.75072413
-2.37713566	-0.81881509	0.00000000	12.81115953
-2.44031774	0.59060577	0.00000000	12.39070988
-1.28611065	1.35334636	0.00000000	-146.46254769
1.26584879	-1.08237463	0.00000000	34.22738559
1.37168419	-1.08237463	0.00000000	29.38824778
1.31876649	-1.13529233	0.00000000	31.90380413
1.31876649	-1.02945693	0.00000000	38.89902975
-0.05291770	-0.70208822	0.00000000	-60.19747419
0.05291770	-0.70208822	0.00000000	-62.68701375
0.00000000	-0.75500592	0.00000000	-63.27327090
0.00000000	-0.64917052	0.00000000	-62.66737154
2.05800137	0.04406596	0.00000000	-11.65039638
2.16383676	0.04406596	0.00000000	-5.88780477
2.11091906	-0.00885174	0.00000000	-10.32024807
2.11091906	0.09698366	0.00000000	-12.26604185
1.27232327	1.15754064	0.00000000	44.53283821
1.37815866	1.15754064	0.00000000	39.44378492
1.32524096	1.10462294	0.00000000	37.98791021
1.32524096	1.21045834	0.00000000	29.36696838
-0.09470669	0.70146698	0.00000000	-125.84560610
0.01112871	0.70146698	0.00000000	-127.63672504
-0.04178899	0.64854929	0.00000000	-1.19995207
-0.04178899	0.75438469	0.00000000	-9.18459110
-1.21473924	-1.48163476	0.00000000	25.97782300
-1.10890384	-1.48163476	0.00000000	28.82297152
-1.16182154	-1.53455246	0.00000000	12.21293762

-1.16182154	-1.42871706	0.00000000	15.25363915
-2.43005336	-0.81881509	0.00000000	-4.15405839
-2.32421796	-0.81881509	0.00000000	-5.52140703
-2.37713566	-0.87173279	0.00000000	-1.69696362
-2.37713566	-0.76589740	0.00000000	-1.56183990
-2.49323545	0.59060577	0.00000000	-9.75094992
-2.38740004	0.59060577	0.00000000	-12.89337990
-2.44031774	0.53768808	0.00000000	5.07444569
-2.44031774	0.64352347	0.00000000	4.93052415
-1.33902835	1.35334636	0.00000000	27.37971606
-1.23319294	1.35334636	0.00000000	30.01560480
-1.28611065	1.30042866	0.00000000	49.31175116
-1.28611065	1.40626406	0.00000000	40.65989539
45	2657.0 # 737.7 nm, (r3v8r2v1) 45		
0.018762	0.035749	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-56.22289930
0.00000000	-0.70208822	0.00000000	104.21011511
2.11091906	0.04406596	0.00000000	16.59619649
1.32524096	1.15754064	0.00000000	-63.21609024
-0.04178899	0.70146698	0.00000000	110.63992821
-1.16182154	-1.48163476	0.00000000	-34.42135753
-2.37713566	-0.81881509	0.00000000	5.39417243
-2.44031774	0.59060577	0.00000000	5.21714100
-1.28611065	1.35334636	0.00000000	-61.66844113
1.26584879	-1.08237463	0.00000000	14.41153077
1.37168419	-1.08237463	0.00000000	12.37399907
1.31876649	-1.13529233	0.00000000	13.43318069
1.31876649	-1.02945693	0.00000000	16.37853884
-0.05291770	-0.70208822	0.00000000	-25.34630492
0.05291770	-0.70208822	0.00000000	-26.39453211
0.00000000	-0.75500592	0.00000000	-26.64137722
0.00000000	-0.64917052	0.00000000	-26.38626170
2.05800137	0.04406596	0.00000000	-4.90543005
2.16383676	0.04406596	0.00000000	-2.47907569
2.11091906	-0.00885174	0.00000000	-4.34536761
2.11091906	0.09698366	0.00000000	-5.16464920
1.27232327	1.15754064	0.00000000	18.75066872
1.37815866	1.15754064	0.00000000	16.60790944
1.32524096	1.10462294	0.00000000	15.99490956
1.32524096	1.21045834	0.00000000	12.36503932
-0.09470669	0.70146698	0.00000000	-52.98762362
0.01112871	0.70146698	0.00000000	-53.74177896
-0.04178899	0.64854929	0.00000000	-0.50524298
-0.04178899	0.75438469	0.00000000	-3.86719625
-1.21473924	-1.48163476	0.00000000	10.93803074
-1.10890384	-1.48163476	0.00000000	12.13598801
-1.16182154	-1.53455246	0.00000000	5.14228952
-1.16182154	-1.42871706	0.00000000	6.42258491
-2.43005336	-0.81881509	0.00000000	-1.74907722
-2.32421796	-0.81881509	0.00000000	-2.32480296
-2.37713566	-0.87173279	0.00000000	-0.71451100
-2.37713566	-0.76589740	0.00000000	-0.65761680
-2.49323545	0.59060577	0.00000000	-4.10566312
-2.38740004	0.59060577	0.00000000	-5.42879154
-2.44031774	0.53768808	0.00000000	2.13660871
-2.44031774	0.64352347	0.00000000	2.07601017
-1.33902835	1.35334636	0.00000000	11.52830150
-1.23319294	1.35334636	0.00000000	12.63814939
-1.28611065	1.30042866	0.00000000	20.76284259
-1.28611065	1.40626406	0.00000000	17.11995595
45	2657.0 # 737.7 nm, (r3v9r2v1) 45		
0.023452	0.044686	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-70.27862413
0.00000000	-0.70208822	0.00000000	130.26264389
2.11091906	0.04406596	0.00000000	20.74524562
1.32524096	1.15754064	0.00000000	-79.02011280
-0.04178899	0.70146698	0.00000000	138.29991026
-1.16182154	-1.48163476	0.00000000	-43.02669691
-2.37713566	-0.81881509	0.00000000	6.74271554
-2.44031774	0.59060577	0.00000000	6.52142625
-1.28611065	1.35334636	0.00000000	-77.08555142
1.26584879	-1.08237463	0.00000000	18.01441347
1.37168419	-1.08237463	0.00000000	15.46749883
1.31876649	-1.13529233	0.00000000	16.79147586
1.31876649	-1.02945693	0.00000000	20.47317355
-0.05291770	-0.70208822	0.00000000	-31.68288115
0.05291770	-0.70208822	0.00000000	-32.99316513
0.00000000	-0.75500592	0.00000000	-33.30172153
0.00000000	-0.64917052	0.00000000	-32.98282712
2.05800137	0.04406596	0.00000000	-6.13178757
2.16383676	0.04406596	0.00000000	-3.09884461
2.11091906	-0.00885174	0.00000000	-5.43170951
2.11091906	0.09698366	0.00000000	-6.45581150
1.27232327	1.15754064	0.00000000	23.43833590
1.37815866	1.15754064	0.00000000	20.75988680

1.32524096	1.10462294	0.00000000	19.99363695
1.32524096	1.21045834	0.00000000	15.45629915
-0.09470669	0.70146698	0.00000000	-66.23452953
0.01112871	0.70146698	0.00000000	-67.17722370
-0.04178899	0.64854929	0.00000000	-0.63155372
-0.04178899	0.75438469	0.00000000	-4.83399532
-1.21473924	-1.48163476	0.00000000	13.67253842
-1.10890384	-1.48163476	0.00000000	15.16998501
-1.16182154	-1.53455246	0.00000000	6.42786190
-1.16182154	-1.42871706	0.00000000	8.02823113
-2.43005336	-0.81881509	0.00000000	-2.18634652
-2.32421796	-0.81881509	0.00000000	-2.90600370
-2.37713566	-0.87173279	0.00000000	-0.89313875
-2.37713566	-0.76589740	0.00000000	-0.82202100
-2.49323545	0.59060577	0.00000000	-5.13207890
-2.38740004	0.59060577	0.00000000	-6.78598942
-2.44031774	0.53768808	0.00000000	2.67076089
-2.44031774	0.64352347	0.00000000	2.59501271
-1.33902835	1.35334636	0.00000000	14.41037687
-1.23319294	1.35334636	0.00000000	15.79768673
-1.28611065	1.30042866	0.00000000	25.95355324
-1.28611065	1.40626406	0.00000000	21.39994494
45	13555.0 # 737.7 nm, (r7r2v1) 45		
0.323667	-0.07592	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.8485163126	# magnet. mom.
1.31876649	-1.08237463	0.00000000	21.91434632
0.00000000	-0.70208822	0.00000000	10.60586690
2.11091906	0.04406596	0.00000000	9.38841172
1.32524096	1.15754064	0.00000000	-13.57595939
-0.04178899	0.70146698	0.00000000	119.23643020
-1.16182154	-1.48163476	0.00000000	-125.26753406
-2.37713566	-0.81881509	0.00000000	71.02561559
-2.44031774	0.59060577	0.00000000	-30.88815023
-1.28611065	1.35334636	0.00000000	-55.64821871
1.26584879	-1.08237463	0.00000000	-6.73786065
1.37168419	-1.08237463	0.00000000	-4.79976884
1.31876649	-1.13529233	0.00000000	-4.09003888
1.31876649	-1.02945693	0.00000000	-6.66024327
-0.05291770	-0.70208822	0.00000000	46.32660500
0.05291770	-0.70208822	0.00000000	47.61974419
0.00000000	-0.75500592	0.00000000	-48.70598062
0.00000000	-0.64917052	0.00000000	-55.74979321
2.05800137	0.04406596	0.00000000	-6.38200102
2.16383676	0.04406596	0.00000000	-6.16608127
2.11091906	-0.00885174	0.00000000	0.78958265
2.11091906	0.09698366	0.00000000	2.53957350
1.27232327	1.15754064	0.00000000	-16.86695860
1.37815866	1.15754064	0.00000000	-14.60880539
1.32524096	1.10462294	0.00000000	24.24226485
1.32524096	1.21045834	0.00000000	20.75271424
-0.09470669	0.70146698	0.00000000	-61.04164442
0.01112871	0.70146698	0.00000000	-64.27683286
-0.04178899	0.64854929	0.00000000	2.33761827
-0.04178899	0.75438469	0.00000000	4.34750233
-1.21473924	-1.48163476	0.00000000	44.05721897
-1.10890384	-1.48163476	0.00000000	45.67899927
-1.16182154	-1.53455246	0.00000000	17.69496876
-1.16182154	-1.42871706	0.00000000	17.55751946
-2.43005336	-0.81881509	0.00000000	-18.47348807
-2.32421796	-0.81881509	0.00000000	-19.61488457
-2.37713566	-0.87173279	0.00000000	-16.37496360
-2.37713566	-0.76589740	0.00000000	-16.25603967
-2.49323545	0.59060577	0.00000000	15.88203744
-2.38740004	0.59060577	0.00000000	18.78079357
-2.44031774	0.53768808	0.00000000	-3.74142267
-2.44031774	0.64352347	0.00000000	-0.10037215
-1.33902835	1.35334636	0.00000000	6.20232032
-1.23319294	1.35334636	0.00000000	5.75431146
-1.28611065	1.30042866	0.00000000	22.18792280
-1.28611065	1.40626406	0.00000000	21.10467433
45	15636.0 # 639.5 nm, (r8r2v1) 45		
-0.85074	0.122021	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.9999114666E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-46.45731431
0.00000000	-0.70208822	0.00000000	153.79976151
2.11091906	0.04406596	0.00000000	21.23880438
1.32524096	1.15754064	0.00000000	169.86951950
-0.04178899	0.70146698	0.00000000	-283.12922580
-1.16182154	-1.48163476	0.00000000	-30.65002339
-2.37713566	-0.81881509	0.00000000	53.16858893
-2.44031774	0.59060577	0.00000000	-50.88375522
-1.28611065	1.35334636	0.00000000	125.30260283
1.26584879	-1.08237463	0.00000000	5.62503126
1.37168419	-1.08237463	0.00000000	5.68185160
1.31876649	-1.13529233	0.00000000	17.27348300
1.31876649	-1.02945693	0.00000000	18.12706908
-0.05291770	-0.70208822	0.00000000	-36.29592093

0.05291770	-0.70208822	0.00000000	-32.26410274
0.00000000	-0.75500592	0.00000000	-43.51332666
0.00000000	-0.64917052	0.00000000	-42.15295647
2.05800137	0.04406596	0.00000000	7.23926719
2.16383676	0.04406596	0.00000000	6.89429737
2.11091906	-0.00885174	0.00000000	-22.60549497
2.11091906	0.09698366	0.00000000	-12.89432382
1.27232327	1.15754064	0.00000000	-46.39006120
1.37815866	1.15754064	0.00000000	-44.64969232
1.32524096	1.10462294	0.00000000	-41.58256563
1.32524096	1.21045834	0.00000000	-37.57681978
-0.09470669	0.70146698	0.00000000	113.48066076
0.01112871	0.70146698	0.00000000	106.02701625
-0.04178899	0.64854929	0.00000000	29.86311215
-0.04178899	0.75438469	0.00000000	34.28828866
-1.21473924	-1.48163476	0.00000000	1.18980650
-1.10890384	-1.48163476	0.00000000	3.28194854
-1.16182154	-1.53455246	0.00000000	10.41999105
-1.16182154	-1.42871706	0.00000000	16.47935573
-2.43005336	-0.81881509	0.00000000	-32.52060266
-2.32421796	-0.81881509	0.00000000	-37.98420516
-2.37713566	-0.87173279	0.00000000	7.89720568
-2.37713566	-0.76589740	0.00000000	9.08400850
-2.49323545	0.59060577	0.00000000	5.59530348
-2.38740004	0.59060577	0.00000000	11.16609595
-2.44031774	0.53768808	0.00000000	18.46863734
-2.44031774	0.64352347	0.00000000	16.33773149
-1.33902835	1.35334636	0.00000000	-33.21055314
-1.23319294	1.35334636	0.00000000	-33.55658712
-1.28611065	1.30042866	0.00000000	-33.66565892
-1.28611065	1.40626406	0.00000000	-25.81624852
&TRANSITION 3->...			
0	0.0 # (r2v3r2v2) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v4r2v2) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v5r2v2) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v6r2v2) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v7r2v2) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
45	2657.0 # 737.7 nm, (r3v1r2v2) 45		
	0.101337 0.193086	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	-1.664952771	# magnet. mom.
	1.31876649 -1.08237463	0.00000000	-303.67166780
	0.00000000 -0.70208822	0.00000000	562.86068224
	2.11091906 0.04406596	0.00000000	89.63953710
	1.32524096 1.15754064	0.00000000	-341.44335837
	-0.04178899 0.70146698	0.00000000	597.58945096
	-1.16182154 -1.48163476	0.00000000	-185.91696939
	-2.37713566 -0.81881509	0.00000000	29.13505635
	-2.44031774 0.59060577	0.00000000	28.17887246
	-1.28611065 1.35334636	0.00000000	-333.08418104
	1.26584879 -1.08237463	0.00000000	77.83969949
	1.37168419 -1.08237463	0.00000000	66.83456350
	1.31876649 -1.13529233	0.00000000	72.55542553
	1.31876649 -1.02945693	0.00000000	88.46392250
	-0.05291770 -0.70208822	0.00000000	-136.90070744
	0.05291770 -0.70208822	0.00000000	-142.56240224
	0.00000000 -0.75500592	0.00000000	-143.89566447
	0.00000000 -0.64917052	0.00000000	-142.51773204
	2.05800137 0.04406596	0.00000000	-26.49525628
	2.16383676 0.04406596	0.00000000	-13.39000761
	2.11091906 -0.00885174	0.00000000	-23.47024159
	2.11091906 0.09698366	0.00000000	-27.89535324
	1.27232327 1.15754064	0.00000000	101.27629334
	1.37815866 1.15754064	0.00000000	89.70280119
	1.32524096 1.10462294	0.00000000	86.39186031
	1.32524096 1.21045834	0.00000000	66.78617004
	-0.09470669 0.70146698	0.00000000	-286.19726548
	0.01112871 0.70146698	0.00000000	-290.27061662
	-0.04178899 0.64854929	0.00000000	-2.72892326
	-0.04178899 0.75438469	0.00000000	-20.88753782
	-1.21473924 -1.48163476	0.00000000	59.07859747
	-1.10890384 -1.48163476	0.00000000	65.54901587
	-1.16182154 -1.53455246	0.00000000	27.77458393
	-1.16182154 -1.42871706	0.00000000	34.68972775
	-2.43005336 -0.81881509	0.00000000	-9.44713279
	-2.32421796 -0.81881509	0.00000000	-12.55674824
	-2.37713566 -0.87173279	0.00000000	-3.85922371
	-2.37713566 -0.76589740	0.00000000	-3.55192623

-2.49323545	0.59060577	0.00000000	-22.17554739
-2.38740004	0.59060577	0.00000000	-29.32204139
-2.44031774	0.53768808	0.00000000	11.54027164
-2.44031774	0.64352347	0.00000000	11.21296621
-1.33902835	1.35334636	0.00000000	62.26677362
-1.23319294	1.35334636	0.00000000	68.26129478
-1.28611065	1.30042866	0.00000000	112.14446634
-1.28611065	1.40626406	0.00000000	92.46847177
45 2657.0 # 737.7 nm, (r3v2r2v2) 45			
0.094225	0.179536	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-282.36137532
0.00000000	-0.70208822	0.00000000	523.36168699
2.11091906	0.04406596	0.00000000	83.34904327
1.32524096	1.15754064	0.00000000	-317.48242094
-0.04178899	0.70146698	0.00000000	555.65334914
-1.16182154	-1.48163476	0.00000000	-172.87016452
-2.37713566	-0.81881509	0.00000000	27.09049100
-2.44031774	0.59060577	0.00000000	26.20140773
-1.28611065	1.35334636	0.00000000	-309.70985255
1.26584879	-1.08237463	0.00000000	72.37726443
1.37168419	-1.08237463	0.00000000	62.14441870
1.31876649	-1.13529233	0.00000000	67.46381672
1.31876649	-1.02945693	0.00000000	82.25592794
-0.05291770	-0.70208822	0.00000000	-127.29364025
0.05291770	-0.70208822	0.00000000	-132.55802314
0.00000000	-0.75500592	0.00000000	-133.79772310
0.00000000	-0.64917052	0.00000000	-132.51648769
2.05800137	0.04406596	0.00000000	-24.63594005
2.16383676	0.04406596	0.00000000	-12.45035796
2.11091906	-0.00885174	0.00000000	-21.82320709
2.11091906	0.09698366	0.00000000	-25.93778459
1.27232327	1.15754064	0.00000000	94.16918504
1.37815866	1.15754064	0.00000000	83.40786777
1.32524096	1.10462294	0.00000000	80.32927362
1.32524096	1.21045834	0.00000000	62.09942126
-0.09470669	0.70146698	0.00000000	-266.11324685
0.01112871	0.70146698	0.00000000	-269.90074879
-0.04178899	0.64854929	0.00000000	-2.53741987
-0.04178899	0.75438469	0.00000000	-19.42174570
-1.21473924	-1.48163476	0.00000000	54.93273098
-1.10890384	-1.48163476	0.00000000	60.94908493
-1.16182154	-1.53455246	0.00000000	25.82549032
-1.16182154	-1.42871706	0.00000000	32.25536089
-2.43005336	-0.81881509	0.00000000	-8.78417610
-2.32421796	-0.81881509	0.00000000	-11.67557292
-2.37713566	-0.87173279	0.00000000	-3.58840100
-2.37713566	-0.76589740	0.00000000	-3.30266824
-2.49323545	0.59060577	0.00000000	-20.61936863
-2.38740004	0.59060577	0.00000000	-27.26435427
-2.44031774	0.53768808	0.00000000	10.73042802
-2.44031774	0.64352347	0.00000000	10.42609139
-1.33902835	1.35334636	0.00000000	57.89717547
-1.23319294	1.35334636	0.00000000	63.47102848
-1.28611065	1.30042866	0.00000000	104.27467923
-1.28611065	1.40626406	0.00000000	85.97945621
45 2657.0 # 737.7 nm, (r3v3r2v2) 45			
0.056891	0.108399	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-170.48233982
0.00000000	-0.70208822	0.00000000	315.99196196
2.11091906	0.04406596	0.00000000	50.32395065
1.32524096	1.15754064	0.00000000	-191.68749944
-0.04178899	0.70146698	0.00000000	335.48881457
-1.16182154	-1.48163476	0.00000000	-104.37443896
-2.37713566	-0.81881509	0.00000000	16.35652287
-2.44031774	0.59060577	0.00000000	15.81971787
-1.28611065	1.35334636	0.00000000	-186.99462795
1.26584879	-1.08237463	0.00000000	43.69948041
1.37168419	-1.08237463	0.00000000	37.52115846
1.31876649	-1.13529233	0.00000000	40.73287047
1.31876649	-1.02945693	0.00000000	49.66395649
-0.05291770	-0.70208822	0.00000000	-76.85653751
0.05291770	-0.70208822	0.00000000	-80.03503284
0.00000000	-0.75500592	0.00000000	-80.78353093
0.00000000	-0.64917052	0.00000000	-80.00995483
2.05800137	0.04406596	0.00000000	-14.87452984
2.16383676	0.04406596	0.00000000	-7.51719726
2.11091906	-0.00885174	0.00000000	-13.17627598
2.11091906	0.09698366	0.00000000	-15.66054919
1.27232327	1.15754064	0.00000000	56.85686644
1.37815866	1.15754064	0.00000000	50.35946733
1.32524096	1.10462294	0.00000000	48.50069351
1.32524096	1.21045834	0.00000000	37.49399020
-0.09470669	0.70146698	0.00000000	-160.67214904
0.01112871	0.70146698	0.00000000	-162.95894266
-0.04178899	0.64854929	0.00000000	-1.53202709

-0.04178899	0.75438469	0.00000000	-11.72633702
-1.21473924	-1.48163476	0.00000000	33.16693191
-1.10890384	-1.48163476	0.00000000	36.79944750
-1.16182154	-1.53455246	0.00000000	15.59274887
-1.16182154	-1.42871706	0.00000000	19.47493488
-2.43005336	-0.81881509	0.00000000	-5.30365349
-2.32421796	-0.81881509	0.00000000	-7.04940252
-2.37713566	-0.87173279	0.00000000	-2.16658173
-2.37713566	-0.76589740	0.00000000	-1.99406385
-2.49323545	0.59060577	0.00000000	-12.44943011
-2.38740004	0.59060577	0.00000000	-16.46149692
-2.44031774	0.53768808	0.00000000	6.47874899
-2.44031774	0.64352347	0.00000000	6.29499857
-1.33902835	1.35334636	0.00000000	34.95678519
-1.23319294	1.35334636	0.00000000	38.32213040
-1.28611065	1.30042866	0.00000000	62.95829689
-1.28611065	1.40626406	0.00000000	51.91212450
45 2657.0 # 737.7 nm, (r3v4r2v2) 45			
0.060446	0.115174	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-181.13748606
0.00000000	-0.70208822	0.00000000	335.74145958
2.11091906	0.04406596	0.00000000	53.46919757
1.32524096	1.15754064	0.00000000	-203.66796815
-0.04178899	0.70146698	0.00000000	356.45686548
-1.16182154	-1.48163476	0.00000000	-110.89784139
-2.37713566	-0.81881509	0.00000000	17.37880554
-2.44031774	0.59060577	0.00000000	16.80845024
-1.28611065	1.35334636	0.00000000	-198.68179220
1.26584879	-1.08237463	0.00000000	46.43069794
1.37168419	-1.08237463	0.00000000	39.86623086
1.31876649	-1.13529233	0.00000000	43.27867488
1.31876649	-1.02945693	0.00000000	52.76795377
-0.05291770	-0.70208822	0.00000000	-81.66007110
0.05291770	-0.70208822	0.00000000	-85.03722239
0.00000000	-0.75500592	0.00000000	-85.83250161
0.00000000	-0.64917052	0.00000000	-85.01057701
2.05800137	0.04406596	0.00000000	-15.80418796
2.16383676	0.04406596	0.00000000	-7.98702209
2.11091906	-0.00885174	0.00000000	-13.99979323
2.11091906	0.09698366	0.00000000	-16.63933351
1.27232327	1.15754064	0.00000000	60.41042059
1.37815866	1.15754064	0.00000000	53.50693404
1.32524096	1.10462294	0.00000000	51.53198685
1.32524096	1.21045834	0.00000000	39.83736458
-0.09470669	0.70146698	0.00000000	-170.71415836
0.01112871	0.70146698	0.00000000	-173.14387658
-0.04178899	0.64854929	0.00000000	-1.62777878
-0.04178899	0.75438469	0.00000000	-12.45923309
-1.21473924	-1.48163476	0.00000000	35.23986516
-1.10890384	-1.48163476	0.00000000	39.09941297
-1.16182154	-1.53455246	0.00000000	16.56729568
-1.16182154	-1.42871706	0.00000000	20.69211831
-2.43005336	-0.81881509	0.00000000	-5.63513184
-2.32421796	-0.81881509	0.00000000	-7.48999018
-2.37713566	-0.87173279	0.00000000	-2.30199309
-2.37713566	-0.76589740	0.00000000	-2.11869284
-2.49323545	0.59060577	0.00000000	-13.22751950
-2.38740004	0.59060577	0.00000000	-17.49034048
-2.44031774	0.53768808	0.00000000	6.88367080
-2.44031774	0.64352347	0.00000000	6.68843598
-1.33902835	1.35334636	0.00000000	37.14158426
-1.23319294	1.35334636	0.00000000	40.71726355
-1.28611065	1.30042866	0.00000000	66.89319045
-1.28611065	1.40626406	0.00000000	55.15663228
45 2657.0 # 737.7 nm, (r3v5r2v2) 45			
0.053335	0.101624	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-159.82719358
0.00000000	-0.70208822	0.00000000	296.24246434
2.11091906	0.04406596	0.00000000	47.17870374
1.32524096	1.15754064	0.00000000	-179.70703072
-0.04178899	0.70146698	0.00000000	314.52076366
-1.16182154	-1.48163476	0.00000000	-97.85103652
-2.37713566	-0.81881509	0.00000000	15.33424019
-2.44031774	0.59060577	0.00000000	14.83098551
-1.28611065	1.35334636	0.00000000	-175.30746371
1.26584879	-1.08237463	0.00000000	40.96826289
1.37168419	-1.08237463	0.00000000	35.17608605
1.31876649	-1.13529233	0.00000000	38.18706607
1.31876649	-1.02945693	0.00000000	46.55995921
-0.05291770	-0.70208822	0.00000000	-72.05300391
0.05291770	-0.70208822	0.00000000	-75.03284329
0.00000000	-0.75500592	0.00000000	-75.73456025
0.00000000	-0.64917052	0.00000000	-75.00933266
2.05800137	0.04406596	0.00000000	-13.94487173
2.16383676	0.04406596	0.00000000	-7.04737243

2.11091906	-0.00885174	0.00000000	-12.35275873
2.11091906	0.09698366	0.00000000	-14.68176486
1.27232327	1.15754064	0.00000000	53.30331228
1.37815866	1.15754064	0.00000000	47.21200063
1.32524096	1.10462294	0.00000000	45.46940016
1.32524096	1.21045834	0.00000000	35.15061581
-0.09470669	0.70146698	0.00000000	-150.63013973
0.01112871	0.70146698	0.00000000	-152.77400875
-0.04178899	0.64854929	0.00000000	-1.43627540
-0.04178899	0.75438469	0.00000000	-10.99344096
-1.21473924	-1.48163476	0.00000000	31.09399867
-1.10890384	-1.48163476	0.00000000	34.49948203
-1.16182154	-1.53455246	0.00000000	14.61820207
-1.16182154	-1.42871706	0.00000000	18.25775145
-2.43005336	-0.81881509	0.00000000	-4.97217515
-2.32421796	-0.81881509	0.00000000	-6.60881486
-2.37713566	-0.87173279	0.00000000	-2.03117037
-2.37713566	-0.76589740	0.00000000	-1.86943486
-2.49323545	0.59060577	0.00000000	-11.67134073
-2.38740004	0.59060577	0.00000000	-15.43265336
-2.44031774	0.53768808	0.00000000	6.07382718
-2.44031774	0.64352347	0.00000000	5.90156116
-1.33902835	1.35334636	0.00000000	32.77198612
-1.23319294	1.35334636	0.00000000	35.92699725
-1.28611065	1.30042866	0.00000000	59.02340334
-1.28611065	1.40626406	0.00000000	48.66761672
45 2657.0 # 737.7 nm, (r3v6r2v2) 45			
0.032001	0.060974	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-95.89631615
0.00000000	-0.70208822	0.00000000	177.74547860
2.11091906	0.04406596	0.00000000	28.30722224
1.32524096	1.15754064	0.00000000	-107.82421843
-0.04178899	0.70146698	0.00000000	188.71245820
-1.16182154	-1.48163476	0.00000000	-58.71062191
-2.37713566	-0.81881509	0.00000000	9.20054411
-2.44031774	0.59060577	0.00000000	8.89859130
-1.28611065	1.35334636	0.00000000	-105.18447822
1.26584879	-1.08237463	0.00000000	24.58095773
1.37168419	-1.08237463	0.00000000	21.10565163
1.31876649	-1.13529233	0.00000000	22.91223964
1.31876649	-1.02945693	0.00000000	27.93597553
-0.05291770	-0.70208822	0.00000000	-43.23180235
0.05291770	-0.70208822	0.00000000	-45.01970597
0.00000000	-0.75500592	0.00000000	-45.44073615
0.00000000	-0.64917052	0.00000000	-45.00559959
2.05800137	0.04406596	0.00000000	-8.36692304
2.16383676	0.04406596	0.00000000	-4.22842346
2.11091906	-0.00885174	0.00000000	-7.41165524
2.11091906	0.09698366	0.00000000	-8.80905892
1.27232327	1.15754064	0.00000000	31.98198737
1.37815866	1.15754064	0.00000000	28.32720038
1.32524096	1.10462294	0.00000000	27.28164010
1.32524096	1.21045834	0.00000000	21.09036949
-0.09470669	0.70146698	0.00000000	-90.37808384
0.01112871	0.70146698	0.00000000	-91.66440525
-0.04178899	0.64854929	0.00000000	-0.86176524
-0.04178899	0.75438469	0.00000000	-6.59606458
-1.21473924	-1.48163476	0.00000000	18.65639920
-1.10890384	-1.48163476	0.00000000	20.69968922
-1.16182154	-1.53455246	0.00000000	8.77092124
-1.16182154	-1.42871706	0.00000000	10.95465087
-2.43005336	-0.81881509	0.00000000	-2.98330509
-2.32421796	-0.81881509	0.00000000	-3.96528892
-2.37713566	-0.87173279	0.00000000	-1.21870222
-2.37713566	-0.76589740	0.00000000	-1.12166091
-2.49323545	0.59060577	0.00000000	-7.00280444
-2.38740004	0.59060577	0.00000000	-9.25959202
-2.44031774	0.53768808	0.00000000	3.64429631
-2.44031774	0.64352347	0.00000000	3.54093670
-1.33902835	1.35334636	0.00000000	19.66319167
-1.23319294	1.35334636	0.00000000	21.55619835
-1.28611065	1.30042866	0.00000000	35.41404200
-1.28611065	1.40626406	0.00000000	29.20057003
45 2657.0 # 737.7 nm, (r3v7r2v2) 45			
0.033779	0.064362	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-101.22388927
0.00000000	-0.70208822	0.00000000	187.62022741
2.11091906	0.04406596	0.00000000	29.87984570
1.32524096	1.15754064	0.00000000	-113.81445279
-0.04178899	0.70146698	0.00000000	199.19648365
-1.16182154	-1.48163476	0.00000000	-61.97232313
-2.37713566	-0.81881509	0.00000000	9.71168545
-2.44031774	0.59060577	0.00000000	9.39295749
-1.28611065	1.35334636	0.00000000	-111.02806035
1.26584879	-1.08237463	0.00000000	25.94656650

1.37168419	-1.08237463	0.00000000	22.27818783
1.31876649	-1.13529233	0.00000000	24.18514184
1.31876649	-1.02945693	0.00000000	29.48797417
-0.05291770	-0.70208822	0.00000000	-45.63356915
0.05291770	-0.70208822	0.00000000	-47.52080075
0.00000000	-0.75500592	0.00000000	-47.96522149
0.00000000	-0.64917052	0.00000000	-47.50591068
2.05800137	0.04406596	0.00000000	-8.83175209
2.16383676	0.04406596	0.00000000	-4.46333587
2.11091906	-0.00885174	0.00000000	-7.82341386
2.11091906	0.09698366	0.00000000	-9.29845108
1.27232327	1.15754064	0.00000000	33.75876445
1.37815866	1.15754064	0.00000000	29.90093373
1.32524096	1.10462294	0.00000000	28.79728677
1.32524096	1.21045834	0.00000000	22.26205668
-0.09470669	0.70146698	0.00000000	-95.39908849
0.01112871	0.70146698	0.00000000	-96.75687221
-0.04178899	0.64854929	0.00000000	-0.90964109
-0.04178899	0.75438469	0.00000000	-6.96251261
-1.21473924	-1.48163476	0.00000000	19.69286582
-1.10890384	-1.48163476	0.00000000	21.84967196
-1.16182154	-1.53455246	0.00000000	9.25819464
-1.16182154	-1.42871706	0.00000000	11.56324258
-2.43005336	-0.81881509	0.00000000	-3.14904426
-2.32421796	-0.81881509	0.00000000	-4.18558275
-2.37713566	-0.87173279	0.00000000	-1.28640790
-2.37713566	-0.76589740	0.00000000	-1.18397541
-2.49323545	0.59060577	0.00000000	-7.39184913
-2.38740004	0.59060577	0.00000000	-9.77401380
-2.44031774	0.53768808	0.00000000	3.84675721
-2.44031774	0.64352347	0.00000000	3.73765540
-1.33902835	1.35334636	0.00000000	20.75559121
-1.23319294	1.35334636	0.00000000	22.75376493
-1.28611065	1.30042866	0.00000000	37.38148878
-1.28611065	1.40626406	0.00000000	30.82282392
45 2657.0 # 737.7 nm, (r3v8r2v2) 45			
0.014223	0.0271	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-42.62058495
0.00000000	-0.70208822	0.00000000	78.99799049
2.11091906	0.04406596	0.00000000	12.58098766
1.32524096	1.15754064	0.00000000	-47.92187486
-0.04178899	0.70146698	0.00000000	83.87220364
-1.16182154	-1.48163476	0.00000000	-26.09360974
-2.37713566	-0.81881509	0.00000000	4.08913072
-2.44031774	0.59060577	0.00000000	3.95492947
-1.28611065	1.35334636	0.00000000	-46.74865699
1.26584879	-1.08237463	0.00000000	10.92487010
1.37168419	-1.08237463	0.00000000	9.38028961
1.31876649	-1.13529233	0.00000000	10.18321762
1.31876649	-1.02945693	0.00000000	12.41598912
-0.05291770	-0.70208822	0.00000000	-19.21413438
0.05291770	-0.70208822	0.00000000	-20.00875821
0.00000000	-0.75500592	0.00000000	-20.19588273
0.00000000	-0.64917052	0.00000000	-20.00248871
2.05800137	0.04406596	0.00000000	-3.71863246
2.16383676	0.04406596	0.00000000	-1.87929931
2.11091906	-0.00885174	0.00000000	-3.29406899
2.11091906	0.09698366	0.00000000	-3.91513730
1.27232327	1.15754064	0.00000000	14.21421661
1.37815866	1.15754064	0.00000000	12.58986683
1.32524096	1.10462294	0.00000000	12.12517338
1.32524096	1.21045834	0.00000000	9.37349755
-0.09470669	0.70146698	0.00000000	-40.16803726
0.01112871	0.70146698	0.00000000	-40.73973567
-0.04178899	0.64854929	0.00000000	-0.38300677
-0.04178899	0.75438469	0.00000000	-2.93158426
-1.21473924	-1.48163476	0.00000000	8.29173298
-1.10890384	-1.48163476	0.00000000	9.19986188
-1.16182154	-1.53455246	0.00000000	3.89818722
-1.16182154	-1.42871706	0.00000000	4.86873372
-2.43005336	-0.81881509	0.00000000	-1.32591337
-2.32421796	-0.81881509	0.00000000	-1.76235063
-2.37713566	-0.87173279	0.00000000	-0.54164543
-2.37713566	-0.76589740	0.00000000	-0.49851596
-2.49323545	0.59060577	0.00000000	-3.11235753
-2.38740004	0.59060577	0.00000000	-4.11537423
-2.44031774	0.53768808	0.00000000	1.61968725
-2.44031774	0.64352347	0.00000000	1.57374964
-1.33902835	1.35334636	0.00000000	8.73919630
-1.23319294	1.35334636	0.00000000	9.58053260
-1.28611065	1.30042866	0.00000000	15.73957422
-1.28611065	1.40626406	0.00000000	12.97803113
45 2657.0 # 737.7 nm, (r3v9r2v2) 45			
0.017778	0.033875	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-53.27573119

	0.00000000	-0.70208822	0.00000000	98.74748811
	2.11091906	0.04406596	0.00000000	15.72623458
	1.32524096	1.15754064	0.00000000	-59.90234357
	-0.04178899	0.70146698	0.00000000	104.84025455
	-1.16182154	-1.48163476	0.00000000	-32.61701217
	-2.37713566	-0.81881509	0.00000000	5.11141340
	-2.44031774	0.59060577	0.00000000	4.94366184
	-1.28611065	1.35334636	0.00000000	-58.43582124
	1.26584879	-1.08237463	0.00000000	13.65608763
	1.37168419	-1.08237463	0.00000000	11.72536202
	1.31876649	-1.13529233	0.00000000	12.72902202
	1.31876649	-1.02945693	0.00000000	15.51998640
	-0.05291770	-0.70208822	0.00000000	-24.01766797
	0.05291770	-0.70208822	0.00000000	-25.01094776
	0.00000000	-0.75500592	0.00000000	-25.24485342
	0.00000000	-0.64917052	0.00000000	-25.00311089
	2.05800137	0.04406596	0.00000000	-4.64829058
	2.16383676	0.04406596	0.00000000	-2.34912414
	2.11091906	-0.00885174	0.00000000	-4.11758624
	2.11091906	0.09698366	0.00000000	-4.89392162
	1.27232327	1.15754064	0.00000000	17.76777076
	1.37815866	1.15754064	0.00000000	15.73733354
	1.32524096	1.10462294	0.00000000	15.15646672
	1.32524096	1.21045834	0.00000000	11.71687194
	-0.09470669	0.70146698	0.00000000	-50.21004658
	0.01112871	0.70146698	0.00000000	-50.92466958
	-0.04178899	0.64854929	0.00000000	-0.47875847
	-0.04178899	0.75438469	0.00000000	-3.66448032
	-1.21473924	-1.48163476	0.00000000	10.36466622
	-1.10890384	-1.48163476	0.00000000	11.49982734
	-1.16182154	-1.53455246	0.00000000	4.87273402
	-1.16182154	-1.42871706	0.00000000	6.08591715
	-2.43005336	-0.81881509	0.00000000	-1.65739172
	-2.32421796	-0.81881509	0.00000000	-2.20293829
	-2.37713566	-0.87173279	0.00000000	-0.67705679
	-2.37713566	-0.76589740	0.00000000	-0.62314495
	-2.49323545	0.59060577	0.00000000	-3.89044691
	-2.38740004	0.59060577	0.00000000	-5.14421779
	-2.44031774	0.53768808	0.00000000	2.02460906
	-2.44031774	0.64352347	0.00000000	1.96718705
	-1.33902835	1.35334636	0.00000000	10.92399537
	-1.23319294	1.35334636	0.00000000	11.97566575
	-1.28611065	1.30042866	0.00000000	19.67446778
	-1.28611065	1.40626406	0.00000000	16.22253891
45	13555.0	# 737.7 nm, (r7r2v2)	45	
	0.24536	-0.05755	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	-0.8485163126	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	16.61248834
	0.00000000	-0.70208822	0.00000000	8.03993136
	2.11091906	0.04406596	0.00000000	7.11702179
	1.32524096	1.15754064	0.00000000	-10.29145308
	-0.04178899	0.70146698	0.00000000	90.38890676
	-1.16182154	-1.48163476	0.00000000	-94.96087260
	-2.37713566	-0.81881509	0.00000000	53.84199892
	-2.44031774	0.59060577	0.00000000	-23.41521066
	-1.28611065	1.35334636	0.00000000	-42.18493999
	1.26584879	-1.08237463	0.00000000	-5.10773307
	1.37168419	-1.08237463	0.00000000	-3.63853444
	1.31876649	-1.13529233	0.00000000	-3.10051334
	1.31876649	-1.02945693	0.00000000	-5.04889409
	-0.05291770	-0.70208822	0.00000000	35.11855540
	0.05291770	-0.70208822	0.00000000	36.09883834
	0.00000000	-0.75500592	0.00000000	-36.92227563
	0.00000000	-0.64917052	0.00000000	-42.26194002
	2.05800137	0.04406596	0.00000000	-4.83796851
	2.16383676	0.04406596	0.00000000	-4.67428741
	2.11091906	-0.00885174	0.00000000	0.59855459
	2.11091906	0.09698366	0.00000000	1.92516056
	1.27232327	1.15754064	0.00000000	-12.78624281
	1.37815866	1.15754064	0.00000000	-11.07441699
	1.32524096	1.10462294	0.00000000	18.37720077
	1.32524096	1.21045834	0.00000000	15.73189628
	-0.09470669	0.70146698	0.00000000	-46.27350464
	0.01112871	0.70146698	0.00000000	-48.72598620
	-0.04178899	0.64854929	0.00000000	1.77206546
	-0.04178899	0.75438469	0.00000000	3.29568725
	-1.21473924	-1.48163476	0.00000000	33.39821438
	-1.10890384	-1.48163476	0.00000000	34.62762848
	-1.16182154	-1.53455246	0.00000000	13.41392793
	-1.16182154	-1.42871706	0.00000000	13.30973250
	-2.43005336	-0.81881509	0.00000000	-14.00409580
	-2.32421796	-0.81881509	0.00000000	-14.86934798
	-2.37713566	-0.87173279	0.00000000	-12.41327886
	-2.37713566	-0.76589740	0.00000000	-12.32312685
	-2.49323545	0.59060577	0.00000000	12.03960903
	-2.38740004	0.59060577	0.00000000	14.23705319
	-2.44031774	0.53768808	0.00000000	-2.83623977

-2.44031774	0.64352347	0.00000000	-0.07608856
-1.33902835	1.35334636	0.00000000	4.70175895
-1.23319294	1.35334636	0.00000000	4.36213933
-1.28611065	1.30042866	0.00000000	16.81987696
-1.28611065	1.40626406	0.00000000	15.99870474
45 15636.0 # 639.5 nm, (r8r2v2) 45			
-0.64492	0.0925	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.9999114666E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-35.21764149
0.00000000	-0.70208822	0.00000000	116.59014179
2.11091906	0.04406596	0.00000000	16.10038397
1.32524096	1.15754064	0.00000000	128.77205511
-0.04178899	0.70146698	0.00000000	-214.63021956
-1.16182154	-1.48163476	0.00000000	-23.23469515
-2.37713566	-0.81881509	0.00000000	40.30522064
-2.44031774	0.59060577	0.00000000	-38.57316928
-1.28611065	1.35334636	0.00000000	94.98745698
1.26584879	-1.08237463	0.00000000	4.26413660
1.37168419	-1.08237463	0.00000000	4.30721009
1.31876649	-1.13529233	0.00000000	13.09441453
1.31876649	-1.02945693	0.00000000	13.74148785
-0.05291770	-0.70208822	0.00000000	-27.51464974
0.05291770	-0.70208822	0.00000000	-24.45827143
0.00000000	-0.75500592	0.00000000	-32.98590892
0.00000000	-0.64917052	0.00000000	-31.95466055
2.05800137	0.04406596	0.00000000	5.48783158
2.16383676	0.04406596	0.00000000	5.22632220
2.11091906	-0.00885174	0.00000000	-17.13642361
2.11091906	0.09698366	0.00000000	-9.77472935
1.27232327	1.15754064	0.00000000	-35.16665930
1.37815866	1.15754064	0.00000000	-33.84734741
1.32524096	1.10462294	0.00000000	-31.52226749
1.32524096	1.21045834	0.00000000	-28.48565370
-0.09470669	0.70146698	0.00000000	86.02566219
0.01112871	0.70146698	0.00000000	80.37531877
-0.04178899	0.64854929	0.00000000	22.63816566
-0.04178899	0.75438469	0.00000000	25.99273495
-1.21473924	-1.48163476	0.00000000	0.90195009
-1.10890384	-1.48163476	0.00000000	2.48792873
-1.16182154	-1.53455246	0.00000000	7.89902547
-1.16182154	-1.42871706	0.00000000	12.49241483
-2.43005336	-0.81881509	0.00000000	-24.65271492
-2.32421796	-0.81881509	0.00000000	-28.79447811
-2.37713566	-0.87173279	0.00000000	5.98659140
-2.37713566	-0.76589740	0.00000000	6.88626451
-2.49323545	0.59060577	0.00000000	4.24160103
-2.38740004	0.59060577	0.00000000	8.46462112
-2.44031774	0.53768808	0.00000000	14.00041863
-2.44031774	0.64352347	0.00000000	12.38505452
-1.33902835	1.35334636	0.00000000	-25.17574190
-1.23319294	1.35334636	0.00000000	-25.43805798
-1.28611065	1.30042866	0.00000000	-25.52074144
-1.28611065	1.40626406	0.00000000	-19.57038194
&TRANSITION 4->...			
0 0.0 # (r2v4r2v3) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r2v5r2v3) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r2v6r2v3) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r2v7r2v3) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
45 2657.0 # 737.7 nm, (r3v1r2v3) 45			
0.094868	0.180761	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-284.28836986
0.00000000	-0.70208822	0.00000000	526.93340465
2.11091906	0.04406596	0.00000000	83.91786452
1.32524096	1.15754064	0.00000000	-319.64910145
-0.04178899	0.70146698	0.00000000	559.44544345
-1.16182154	-1.48163476	0.00000000	-174.04992879
-2.37713566	-0.81881509	0.00000000	27.27537191
-2.44031774	0.59060577	0.00000000	26.38022103
-1.28611065	1.35334636	0.00000000	-311.82348864
1.26584879	-1.08237463	0.00000000	72.87120803
1.37168419	-1.08237463	0.00000000	62.56852754
1.31876649	-1.13529233	0.00000000	67.92422816
1.31876649	-1.02945693	0.00000000	82.81728915
-0.05291770	-0.70208822	0.00000000	-128.16236441
0.05291770	-0.70208822	0.00000000	-133.46267444
0.00000000	-0.75500592	0.00000000	-134.71083482
0.00000000	-0.64917052	0.00000000	-133.42085553
2.05800137	0.04406596	0.00000000	-24.80406971

2.16383676	0.04406596	0.00000000	-12.53532628
2.11091906	-0.00885174	0.00000000	-21.97214106
2.11091906	0.09698366	0.00000000	-26.11479878
1.27232327	1.15754064	0.00000000	94.81184909
1.37815866	1.15754064	0.00000000	83.97709047
1.32524096	1.10462294	0.00000000	80.87748624
1.32524096	1.21045834	0.00000000	62.52322301
-0.09470669	0.70146698	0.00000000	-267.92935492
0.01112871	0.70146698	0.00000000	-271.74270492
-0.04178899	0.64854929	0.00000000	-2.55473667
-0.04178899	0.75438469	0.00000000	-19.55429073
-1.21473924	-1.48163476	0.00000000	55.30762317
-1.10890384	-1.48163476	0.00000000	61.36503613
-1.16182154	-1.53455246	0.00000000	26.00173815
-1.16182154	-1.42871706	0.00000000	32.47548981
-2.43005336	-0.81881509	0.00000000	-8.84412431
-2.32421796	-0.81881509	0.00000000	-11.75525367
-2.37713566	-0.87173279	0.00000000	-3.61289028
-2.37713566	-0.76589740	0.00000000	-3.32520753
-2.49323545	0.59060577	0.00000000	-20.76008692
-2.38740004	0.59060577	0.00000000	-27.45042173
-2.44031774	0.53768808	0.00000000	10.80365856
-2.44031774	0.64352347	0.00000000	10.49724496
-1.33902835	1.35334636	0.00000000	58.29229871
-1.23319294	1.35334636	0.00000000	63.90419085
-1.28611065	1.30042866	0.00000000	104.98630892
-1.28611065	1.40626406	0.00000000	86.56622889
45 2657.0 # 737.7 nm, (r3v2r2v3) 45			
0.088211	0.168076	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-264.33830881
0.00000000	-0.70208822	0.00000000	489.95562187
2.11091906	0.04406596	0.00000000	78.02889157
1.32524096	1.15754064	0.00000000	-297.21758556
-0.04178899	0.70146698	0.00000000	520.18611409
-1.16182154	-1.48163476	0.00000000	-161.83589870
-2.37713566	-0.81881509	0.00000000	25.36131072
-2.44031774	0.59060577	0.00000000	24.52897745
-1.28611065	1.35334636	0.00000000	-289.94113856
1.26584879	-1.08237463	0.00000000	67.75743905
1.37168419	-1.08237463	0.00000000	58.17775367
1.31876649	-1.13529233	0.00000000	63.15761565
1.31876649	-1.02945693	0.00000000	77.00554956
-0.05291770	-0.70208822	0.00000000	-119.16851428
0.05291770	-0.70208822	0.00000000	-124.09687272
0.00000000	-0.75500592	0.00000000	-125.25744290
0.00000000	-0.64917052	0.00000000	-124.05798848
2.05800137	0.04406596	0.00000000	-23.06343324
2.16383676	0.04406596	0.00000000	-11.65565426
2.11091906	-0.00885174	0.00000000	-20.43023642
2.11091906	0.09698366	0.00000000	-24.28218132
1.27232327	1.15754064	0.00000000	88.15838599
1.37815866	1.15754064	0.00000000	78.08396132
1.32524096	1.10462294	0.00000000	75.20187317
1.32524096	1.21045834	0.00000000	58.13562842
-0.09470669	0.70146698	0.00000000	-249.12729492
0.01112871	0.70146698	0.00000000	-252.67304142
-0.04178899	0.64854929	0.00000000	-2.37545690
-0.04178899	0.75438469	0.00000000	-18.18205980
-1.21473924	-1.48163476	0.00000000	51.42638645
-1.10890384	-1.48163476	0.00000000	57.05871780
-1.16182154	-1.53455246	0.00000000	24.17705477
-1.16182154	-1.42871706	0.00000000	30.19650807
-2.43005336	-0.81881509	0.00000000	-8.22348401
-2.32421796	-0.81881509	0.00000000	-10.93032359
-2.37713566	-0.87173279	0.00000000	-3.35935412
-2.37713566	-0.76589740	0.00000000	-3.09185963
-2.49323545	0.59060577	0.00000000	-19.30323872
-2.38740004	0.59060577	0.00000000	-25.52407634
-2.44031774	0.53768808	0.00000000	10.04550708
-2.44031774	0.64352347	0.00000000	9.76059619
-1.33902835	1.35334636	0.00000000	54.20161108
-1.23319294	1.35334636	0.00000000	59.41968623
-1.28611065	1.30042866	0.00000000	97.61884864
-1.28611065	1.40626406	0.00000000	80.49140581
45 2657.0 # 737.7 nm, (r3v3r2v3) 45			
0.053259	0.10148	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-159.60048834
0.00000000	-0.70208822	0.00000000	295.82226226
2.11091906	0.04406596	0.00000000	47.11178359
1.32524096	1.15754064	0.00000000	-179.45212713
-0.04178899	0.70146698	0.00000000	314.07463492
-1.16182154	-1.48163476	0.00000000	-97.71224072
-2.37713566	-0.81881509	0.00000000	15.31248949
-2.44031774	0.59060577	0.00000000	14.80994865
-1.28611065	1.35334636	0.00000000	-175.05880064

1.26584879	-1.08237463	0.00000000	40.91015188
1.37168419	-1.08237463	0.00000000	35.12619090
1.31876649	-1.13529233	0.00000000	38.13290002
1.31876649	-1.02945693	0.00000000	46.49391671
-0.05291770	-0.70208822	0.00000000	-71.95080107
0.05291770	-0.70208822	0.00000000	-74.92641372
0.00000000	-0.75500592	0.00000000	-75.62713534
0.00000000	-0.64917052	0.00000000	-74.90293644
2.05800137	0.04406596	0.00000000	-13.92509177
2.16383676	0.04406596	0.00000000	-7.03737616
2.11091906	-0.00885174	0.00000000	-12.33523709
2.11091906	0.09698366	0.00000000	-14.66093967
1.27232327	1.15754064	0.00000000	53.22770475
1.37815866	1.15754064	0.00000000	47.14503325
1.32524096	1.10462294	0.00000000	45.40490456
1.32524096	1.21045834	0.00000000	35.10075678
-0.09470669	0.70146698	0.00000000	-150.41647995
0.01112871	0.70146698	0.00000000	-152.55730802
-0.04178899	0.64854929	0.00000000	-1.43423813
-0.04178899	0.75438469	0.00000000	-10.97784743
-1.21473924	-1.48163476	0.00000000	31.04989371
-1.10890384	-1.48163476	0.00000000	34.45054660
-1.16182154	-1.53455246	0.00000000	14.59746703
-1.16182154	-1.42871706	0.00000000	18.23185393
-2.43005336	-0.81881509	0.00000000	-4.96512242
-2.32421796	-0.81881509	0.00000000	-6.59944066
-2.37713566	-0.87173279	0.00000000	-2.02828928
-2.37713566	-0.76589740	0.00000000	-1.86678317
-2.49323545	0.59060577	0.00000000	-11.65478564
-2.38740004	0.59060577	0.00000000	-15.41076307
-2.44031774	0.53768808	0.00000000	6.06521182
-2.44031774	0.64352347	0.00000000	5.89319015
-1.33902835	1.35334636	0.00000000	32.72550103
-1.23319294	1.35334636	0.00000000	35.87603697
-1.28611065	1.30042866	0.00000000	58.93968220
-1.28611065	1.40626406	0.00000000	48.59858464
45 2657.0 # 737.7 nm, (r3v4r2v3) 45			
0.056588	0.107822	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-169.57551886
0.00000000	-0.70208822	0.00000000	314.31115365
2.11091906	0.04406596	0.00000000	50.05627007
1.32524096	1.15754064	0.00000000	-190.66788508
-0.04178899	0.70146698	0.00000000	333.70429960
-1.16182154	-1.48163476	0.00000000	-103.81925577
-2.37713566	-0.81881509	0.00000000	16.26952008
-2.44031774	0.59060577	0.00000000	15.73557044
-1.28611065	1.35334636	0.00000000	-185.99997568
1.26584879	-1.08237463	0.00000000	43.46703637
1.37168419	-1.08237463	0.00000000	37.32157783
1.31876649	-1.13529233	0.00000000	40.51620627
1.31876649	-1.02945693	0.00000000	49.39978651
-0.05291770	-0.70208822	0.00000000	-76.44772614
0.05291770	-0.70208822	0.00000000	-79.60931458
0.00000000	-0.75500592	0.00000000	-80.35383130
0.00000000	-0.64917052	0.00000000	-79.58436997
2.05800137	0.04406596	0.00000000	-14.79541000
2.16383676	0.04406596	0.00000000	-7.47721217
2.11091906	-0.00885174	0.00000000	-13.10618940
2.11091906	0.09698366	0.00000000	-15.57724840
1.27232327	1.15754064	0.00000000	56.55443630
1.37815866	1.15754064	0.00000000	50.09159783
1.32524096	1.10462294	0.00000000	48.24271109
1.32524096	1.21045834	0.00000000	37.29455408
-0.09470669	0.70146698	0.00000000	-159.81750995
0.01112871	0.70146698	0.00000000	-162.09213978
-0.04178899	0.64854929	0.00000000	-1.52387801
-0.04178899	0.75438469	0.00000000	-11.66396289
-1.21473924	-1.48163476	0.00000000	32.99051206
-1.10890384	-1.48163476	0.00000000	36.60370576
-1.16182154	-1.53455246	0.00000000	15.50980872
-1.16182154	-1.42871706	0.00000000	19.37134480
-2.43005336	-0.81881509	0.00000000	-5.27544257
-2.32421796	-0.81881509	0.00000000	-7.01190570
-2.37713566	-0.87173279	0.00000000	-2.15505736
-2.37713566	-0.76589740	0.00000000	-1.98345712
-2.49323545	0.59060577	0.00000000	-12.38320974
-2.38740004	0.59060577	0.00000000	-16.37393577
-2.44031774	0.53768808	0.00000000	6.44428756
-2.44031774	0.64352347	0.00000000	6.26151454
-1.33902835	1.35334636	0.00000000	34.77084484
-1.23319294	1.35334636	0.00000000	38.11828928
-1.28611065	1.30042866	0.00000000	62.62341234
-1.28611065	1.40626406	0.00000000	51.63599618
45 2657.0 # 737.7 nm, (r3v5r2v3) 45			
0.049931	0.095137	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.

1.31876649	-1.08237463	0.00000000	-149.62545782
0.00000000	-0.70208822	0.00000000	277.33337087
2.11091906	0.04406596	0.00000000	44.16729712
1.32524096	1.15754064	0.00000000	-168.23636919
-0.04178899	0.70146698	0.00000000	294.44497024
-1.16182154	-1.48163476	0.00000000	-91.60522568
-2.37713566	-0.81881509	0.00000000	14.35545890
-2.44031774	0.59060577	0.00000000	13.88432686
-1.28611065	1.35334636	0.00000000	-164.11762560
1.26584879	-1.08237463	0.00000000	38.35326738
1.37168419	-1.08237463	0.00000000	32.93080397
1.31876649	-1.13529233	0.00000000	35.74959377
1.31876649	-1.02945693	0.00000000	43.58804692
-0.05291770	-0.70208822	0.00000000	-67.45387601
0.05291770	-0.70208822	0.00000000	-70.24351286
0.00000000	-0.75500592	0.00000000	-70.90043938
0.00000000	-0.64917052	0.00000000	-70.22150291
2.05800137	0.04406596	0.00000000	-13.05477353
2.16383676	0.04406596	0.00000000	-6.59754015
2.11091906	-0.00885174	0.00000000	-11.56428477
2.11091906	0.09698366	0.00000000	-13.74463094
1.27232327	1.15754064	0.00000000	49.90097320
1.37815866	1.15754064	0.00000000	44.19846867
1.32524096	1.10462294	0.00000000	42.56709802
1.32524096	1.21045834	0.00000000	32.90695948
-0.09470669	0.70146698	0.00000000	-141.01544996
0.01112871	0.70146698	0.00000000	-143.02247627
-0.04178899	0.64854929	0.00000000	-1.34459824
-0.04178899	0.75438469	0.00000000	-10.29173196
-1.21473924	-1.48163476	0.00000000	29.10927535
-1.10890384	-1.48163476	0.00000000	32.29738744
-1.16182154	-1.53455246	0.00000000	13.68512534
-1.16182154	-1.42871706	0.00000000	17.09236306
-2.43005336	-0.81881509	0.00000000	-4.65480227
-2.32421796	-0.81881509	0.00000000	-6.18697561
-2.37713566	-0.87173279	0.00000000	-1.90152120
-2.37713566	-0.76589740	0.00000000	-1.75010923
-2.49323545	0.59060577	0.00000000	-10.92636154
-2.38740004	0.59060577	0.00000000	-14.44759038
-2.44031774	0.53768808	0.00000000	5.68613608
-2.44031774	0.64352347	0.00000000	5.52486577
-1.33902835	1.35334636	0.00000000	30.68015721
-1.23319294	1.35334636	0.00000000	33.63378466
-1.28611065	1.30042866	0.00000000	55.25595206
-1.28611065	1.40626406	0.00000000	45.56117310
45 2657.0 # 737.7 nm, (r3v6r2v3) 45			
0.029958	0.057082	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-89.77527469
0.00000000	-0.70208822	0.00000000	166.40002252
2.11091906	0.04406596	0.00000000	26.50037827
1.32524096	1.15754064	0.00000000	-100.94182151
-0.04178899	0.70146698	0.00000000	176.66698214
-1.16182154	-1.48163476	0.00000000	-54.96313541
-2.37713566	-0.81881509	0.00000000	8.61327534
-2.44031774	0.59060577	0.00000000	8.33059611
-1.28611065	1.35334636	0.00000000	-98.47057536
1.26584879	-1.08237463	0.00000000	23.01196043
1.37168419	-1.08237463	0.00000000	19.75848238
1.31876649	-1.13529233	0.00000000	21.44975626
1.31876649	-1.02945693	0.00000000	26.15282815
-0.05291770	-0.70208822	0.00000000	-40.47232560
0.05291770	-0.70208822	0.00000000	-42.14610772
0.00000000	-0.75500592	0.00000000	-42.54026363
0.00000000	-0.64917052	0.00000000	-42.13290175
2.05800137	0.04406596	0.00000000	-7.83286412
2.16383676	0.04406596	0.00000000	-3.95852409
2.11091906	-0.00885174	0.00000000	-6.93857086
2.11091906	0.09698366	0.00000000	-8.24677856
1.27232327	1.15754064	0.00000000	29.94058392
1.37815866	1.15754064	0.00000000	26.51908120
1.32524096	1.10462294	0.00000000	25.54025881
1.32524096	1.21045834	0.00000000	19.74417569
-0.09470669	0.70146698	0.00000000	-84.60926997
0.01112871	0.70146698	0.00000000	-85.81348576
-0.04178899	0.64854929	0.00000000	-0.80675895
-0.04178899	0.75438469	0.00000000	-6.17503918
-1.21473924	-1.48163476	0.00000000	17.46556521
-1.10890384	-1.48163476	0.00000000	19.37843246
-1.16182154	-1.53455246	0.00000000	8.21107520
-1.16182154	-1.42871706	0.00000000	10.25541784
-2.43005336	-0.81881509	0.00000000	-2.79288136
-2.32421796	-0.81881509	0.00000000	-3.71218537
-2.37713566	-0.87173279	0.00000000	-1.14091272
-2.37713566	-0.76589740	0.00000000	-1.05006554
-2.49323545	0.59060577	0.00000000	-6.55581692
-2.38740004	0.59060577	0.00000000	-8.66855423

-2.44031774	0.53768808	0.00000000	3.41168165
-2.44031774	0.64352347	0.00000000	3.31491946
-1.33902835	1.35334636	0.00000000	18.40809433
-1.23319294	1.35334636	0.00000000	20.18027080
-1.28611065	1.30042866	0.00000000	33.15357124
-1.28611065	1.40626406	0.00000000	27.33670386
45 2657.0 # 737.7 nm, (r3v7r2v3) 45			
0.031623	0.060254	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-94.76278995
0.00000000	-0.70208822	0.00000000	175.64446822
2.11091906	0.04406596	0.00000000	27.97262151
1.32524096	1.15754064	0.00000000	-106.54970048
-0.04178899	0.70146698	0.00000000	186.48181448
-1.16182154	-1.48163476	0.00000000	-58.01664293
-2.37713566	-0.81881509	0.00000000	9.09179064
-2.44031774	0.59060577	0.00000000	8.79340701
-1.28611065	1.35334636	0.00000000	-103.94116288
1.26584879	-1.08237463	0.00000000	24.29040268
1.37168419	-1.08237463	0.00000000	20.85617585
1.31876649	-1.13529233	0.00000000	22.64140939
1.31876649	-1.02945693	0.00000000	27.60576305
-0.05291770	-0.70208822	0.00000000	-42.72078814
0.05291770	-0.70208822	0.00000000	-44.48755815
0.00000000	-0.75500592	0.00000000	-44.90361161
0.00000000	-0.64917052	0.00000000	-44.47361851
2.05800137	0.04406596	0.00000000	-8.26802324
2.16383676	0.04406596	0.00000000	-4.17844209
2.11091906	-0.00885174	0.00000000	-7.32404702
2.11091906	0.09698366	0.00000000	-8.70493293
1.27232327	1.15754064	0.00000000	31.60394970
1.37815866	1.15754064	0.00000000	27.99236349
1.32524096	1.10462294	0.00000000	26.95916208
1.32524096	1.21045834	0.00000000	20.84107434
-0.09470669	0.70146698	0.00000000	-89.30978497
0.01112871	0.70146698	0.00000000	-90.58090164
-0.04178899	0.64854929	0.00000000	-0.85157889
-0.04178899	0.75438469	0.00000000	-6.51809691
-1.21473924	-1.48163476	0.00000000	18.43587439
-1.10890384	-1.48163476	0.00000000	20.45501204
-1.16182154	-1.53455246	0.00000000	8.66724605
-1.16182154	-1.42871706	0.00000000	10.82516327
-2.43005336	-0.81881509	0.00000000	-2.94804144
-2.32421796	-0.81881509	0.00000000	-3.91841789
-2.37713566	-0.87173279	0.00000000	-1.20429676
-2.37713566	-0.76589740	0.00000000	-1.10840251
-2.49323545	0.59060577	0.00000000	-6.92002897
-2.38740004	0.59060577	0.00000000	-9.15014058
-2.44031774	0.53768808	0.00000000	3.60121952
-2.44031774	0.64352347	0.00000000	3.49908165
-1.33902835	1.35334636	0.00000000	19.43076624
-1.23319294	1.35334636	0.00000000	21.30139695
-1.28611065	1.30042866	0.00000000	34.99543631
-1.28611065	1.40626406	0.00000000	28.85540963
45 2657.0 # 737.7 nm, (r3v8r2v3) 45			
0.013315	0.02537	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-39.90012209
0.00000000	-0.70208822	0.00000000	73.95556556
2.11091906	0.04406596	0.00000000	11.77794590
1.32524096	1.15754064	0.00000000	-44.86303178
-0.04178899	0.70146698	0.00000000	78.51865873
-1.16182154	-1.48163476	0.00000000	-24.42806018
-2.37713566	-0.81881509	0.00000000	3.82812237
-2.44031774	0.59060577	0.00000000	3.70248716
-1.28611065	1.35334636	0.00000000	-43.76470016
1.26584879	-1.08237463	0.00000000	10.22753797
1.37168419	-1.08237463	0.00000000	8.78154772
1.31876649	-1.13529233	0.00000000	9.53322500
1.31876649	-1.02945693	0.00000000	11.62347918
-0.05291770	-0.70208822	0.00000000	-17.98770027
0.05291770	-0.70208822	0.00000000	-18.73160343
0.00000000	-0.75500592	0.00000000	-18.90678383
0.00000000	-0.64917052	0.00000000	-18.72573411
2.05800137	0.04406596	0.00000000	-3.48127294
2.16383676	0.04406596	0.00000000	-1.75934404
2.11091906	-0.00885174	0.00000000	-3.08380927
2.11091906	0.09698366	0.00000000	-3.66523492
1.27232327	1.15754064	0.00000000	13.30692619
1.37815866	1.15754064	0.00000000	11.78625831
1.32524096	1.10462294	0.00000000	11.35122614
1.32524096	1.21045834	0.00000000	8.77518919
-0.09470669	0.70146698	0.00000000	-37.60411999
0.01112871	0.70146698	0.00000000	-38.13932701
-0.04178899	0.64854929	0.00000000	-0.35855953
-0.04178899	0.75438469	0.00000000	-2.74446186
-1.21473924	-1.48163476	0.00000000	7.76247343

-1.10890384	-1.48163476	0.00000000	8.61263665
-1.16182154	-1.53455246	0.00000000	3.64936676
-1.16182154	-1.42871706	0.00000000	4.55796348
-2.43005336	-0.81881509	0.00000000	-1.24128060
-2.32421796	-0.81881509	0.00000000	-1.64986016
-2.37713566	-0.87173279	0.00000000	-0.50707232
-2.37713566	-0.76589740	0.00000000	-0.46669579
-2.49323545	0.59060577	0.00000000	-2.91369641
-2.38740004	0.59060577	0.00000000	-3.85269077
-2.44031774	0.53768808	0.00000000	1.51630296
-2.44031774	0.64352347	0.00000000	1.47329754
-1.33902835	1.35334636	0.00000000	8.18137526
-1.23319294	1.35334636	0.00000000	8.96900924
-1.28611065	1.30042866	0.00000000	14.73492055
-1.28611065	1.40626406	0.00000000	12.14964616
45 2657.0 # 737.7 nm, (r3v9r2v3) 45			
0.016644	0.031712	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-49.87515261
0.00000000	-0.70208822	0.00000000	92.44445696
2.11091906	0.04406596	0.00000000	14.72243237
1.32524096	1.15754064	0.00000000	-56.07878973
-0.04178899	0.70146698	0.00000000	98.14832341
-1.16182154	-1.48163476	0.00000000	-30.53507523
-2.37713566	-0.81881509	0.00000000	4.78515297
-2.44031774	0.59060577	0.00000000	4.62810895
-1.28611065	1.35334636	0.00000000	-54.70587520
1.26584879	-1.08237463	0.00000000	12.78442246
1.37168419	-1.08237463	0.00000000	10.97693466
1.31876649	-1.13529233	0.00000000	11.91653126
1.31876649	-1.02945693	0.00000000	14.52934897
-0.05291770	-0.70208822	0.00000000	-22.48462534
0.05291770	-0.70208822	0.00000000	-23.41450429
0.00000000	-0.75500592	0.00000000	-23.63347979
0.00000000	-0.64917052	0.00000000	-23.40716764
2.05800137	0.04406596	0.00000000	-4.35159118
2.16383676	0.04406596	0.00000000	-2.19918005
2.11091906	-0.00885174	0.00000000	-3.85476159
2.11091906	0.09698366	0.00000000	-4.58154365
1.27232327	1.15754064	0.00000000	16.63365773
1.37815866	1.15754064	0.00000000	14.73282289
1.32524096	1.10462294	0.00000000	14.18903267
1.32524096	1.21045834	0.00000000	10.96898649
-0.09470669	0.70146698	0.00000000	-47.00514999
0.01112871	0.70146698	0.00000000	-47.67415876
-0.04178899	0.64854929	0.00000000	-0.44819941
-0.04178899	0.75438469	0.00000000	-3.43057732
-1.21473924	-1.48163476	0.00000000	9.70309178
-1.10890384	-1.48163476	0.00000000	10.76579581
-1.16182154	-1.53455246	0.00000000	4.56170845
-1.16182154	-1.42871706	0.00000000	5.69745435
-2.43005336	-0.81881509	0.00000000	-1.55160076
-2.32421796	-0.81881509	0.00000000	-2.06232520
-2.37713566	-0.87173279	0.00000000	-0.63384040
-2.37713566	-0.76589740	0.00000000	-0.58336974
-2.49323545	0.59060577	0.00000000	-3.64212051
-2.38740004	0.59060577	0.00000000	-4.81586346
-2.44031774	0.53768808	0.00000000	1.89537869
-2.44031774	0.64352347	0.00000000	1.84162192
-1.33902835	1.35334636	0.00000000	10.22671907
-1.23319294	1.35334636	0.00000000	11.21126155
-1.28611065	1.30042866	0.00000000	18.41865069
-1.28611065	1.40626406	0.00000000	15.18705770
45 13555.0 # 737.7 nm, (r7r2v3) 45			
0.229699	-0.05388	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.8485163126	# magnet. mom.
1.31876649	-1.08237463	0.00000000	15.55211674
0.00000000	-0.70208822	0.00000000	7.52674425
2.11091906	0.04406596	0.00000000	6.66274380
1.32524096	1.15754064	0.00000000	-9.63455182
-0.04178899	0.70146698	0.00000000	84.61940208
-1.16182154	-1.48163476	0.00000000	-88.89954030
-2.37713566	-0.81881509	0.00000000	50.40527558
-2.44031774	0.59060577	0.00000000	-21.92062275
-1.28611065	1.35334636	0.00000000	-39.49228424
1.26584879	-1.08237463	0.00000000	-4.78170756
1.37168419	-1.08237463	0.00000000	-3.40628756
1.31876649	-1.13529233	0.00000000	-2.90260824
1.31876649	-1.02945693	0.00000000	-4.72662426
-0.05291770	-0.70208822	0.00000000	32.87694548
0.05291770	-0.70208822	0.00000000	33.79465717
0.00000000	-0.75500592	0.00000000	-34.56553463
0.00000000	-0.64917052	0.00000000	-39.56436938
2.05800137	0.04406596	0.00000000	-4.52916201
2.16383676	0.04406596	0.00000000	-4.37592864
2.11091906	-0.00885174	0.00000000	0.56034898
2.11091906	0.09698366	0.00000000	1.80227797

1.27232327	1.15754064	0.00000000	-11.97009965
1.37815866	1.15754064	0.00000000	-10.36753931
1.32524096	1.10462294	0.00000000	17.20418796
1.32524096	1.21045834	0.00000000	14.72773269
-0.09470669	0.70146698	0.00000000	-43.31987669
0.01112871	0.70146698	0.00000000	-45.61581687
-0.04178899	0.64854929	0.00000000	1.65895490
-0.04178899	0.75438469	0.00000000	3.08532424
-1.21473924	-1.48163476	0.00000000	31.26641346
-1.10890384	-1.48163476	0.00000000	32.41735432
-1.16182154	-1.53455246	0.00000000	12.55771976
-1.16182154	-1.42871706	0.00000000	12.46017510
-2.43005336	-0.81881509	0.00000000	-13.11021734
-2.32421796	-0.81881509	0.00000000	-13.92024066
-2.37713566	-0.87173279	0.00000000	-11.62094191
-2.37713566	-0.76589740	0.00000000	-11.53654428
-2.49323545	0.59060577	0.00000000	11.27112334
-2.38740004	0.59060577	0.00000000	13.32830512
-2.44031774	0.53768808	0.00000000	-2.65520319
-2.44031774	0.64352347	0.00000000	-0.07123185
-1.33902835	1.35334636	0.00000000	4.40164668
-1.23319294	1.35334636	0.00000000	4.08370491
-1.28611065	1.30042866	0.00000000	15.74626779
-1.28611065	1.40626406	0.00000000	14.97751082
45 15636.0 # 639.5 nm, (r8r2v3) 45			
-0.60375	0.086595	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.9999114666E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-32.96970693
0.00000000	-0.70208822	0.00000000	109.14821785
2.11091906	0.04406596	0.00000000	15.07269988
1.32524096	1.15754064	0.00000000	120.55256223
-0.04178899	0.70146698	0.00000000	-200.93041831
-1.16182154	-1.48163476	0.00000000	-21.75162950
-2.37713566	-0.81881509	0.00000000	37.73254698
-2.44031774	0.59060577	0.00000000	-36.11105209
-1.28611065	1.35334636	0.00000000	88.92442781
1.26584879	-1.08237463	0.00000000	3.99195767
1.37168419	-1.08237463	0.00000000	4.03228178
1.31876649	-1.13529233	0.00000000	12.25860084
1.31876649	-1.02945693	0.00000000	12.86437160
-0.05291770	-0.70208822	0.00000000	-25.75839550
0.05291770	-0.70208822	0.00000000	-22.89710517
0.00000000	-0.75500592	0.00000000	-30.88042537
0.00000000	-0.64917052	0.00000000	-29.91500137
2.05800137	0.04406596	0.00000000	5.13754446
2.16383676	0.04406596	0.00000000	4.89272716
2.11091906	-0.00885174	0.00000000	-16.04260933
2.11091906	0.09698366	0.00000000	-9.15081045
1.27232327	1.15754064	0.00000000	-32.92197892
1.37815866	1.15754064	0.00000000	-31.68687842
1.32524096	1.10462294	0.00000000	-29.51020787
1.32524096	1.21045834	0.00000000	-26.66742049
-0.09470669	0.70146698	0.00000000	80.53466248
0.01112871	0.70146698	0.00000000	75.24497927
-0.04178899	0.64854929	0.00000000	21.19317636
-0.04178899	0.75438469	0.00000000	24.33362421
-1.21473924	-1.48163476	0.00000000	0.84437881
-1.10890384	-1.48163476	0.00000000	2.32912477
-1.16182154	-1.53455246	0.00000000	7.39483236
-1.16182154	-1.42871706	0.00000000	11.69502665
-2.43005336	-0.81881509	0.00000000	-23.07913737
-2.32421796	-0.81881509	0.00000000	-26.95653270
-2.37713566	-0.87173279	0.00000000	5.60446854
-2.37713566	-0.76589740	0.00000000	6.44671571
-2.49323545	0.59060577	0.00000000	3.97086054
-2.38740004	0.59060577	0.00000000	7.92432616
-2.44031774	0.53768808	0.00000000	13.10677489
-2.44031774	0.64352347	0.00000000	11.59451912
-1.33902835	1.35334636	0.00000000	-23.56877965
-1.23319294	1.35334636	0.00000000	-23.81435215
-1.28611065	1.30042866	0.00000000	-23.89175794
-1.28611065	1.40626406	0.00000000	-18.32120862
&TRANSITION 5->...			
0 0.0 # (r2v5r2v4) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r2v6r2v4) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r2v7r2v4) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
45 2657.0 # 737.7 nm, (r3v1r2v4) 45			
0.04959	0.094489	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-148.60528424
0.00000000	-0.70208822	0.00000000	275.44246152

2.11091906	0.04406596	0.00000000	43.86615645
1.32524096	1.15754064	0.00000000	-167.08930303
-0.04178899	0.70146698	0.00000000	292.43739089
-1.16182154	-1.48163476	0.00000000	-90.98064460
-2.37713566	-0.81881509	0.00000000	14.25758077
-2.44031774	0.59060577	0.00000000	13.78966099
-1.28611065	1.35334636	0.00000000	-162.99864179
1.26584879	-1.08237463	0.00000000	38.09176783
1.37168419	-1.08237463	0.00000000	32.70627576
1.31876649	-1.13529233	0.00000000	35.50584654
1.31876649	-1.02945693	0.00000000	43.29085569
-0.05291770	-0.70208822	0.00000000	-66.99396321
0.05291770	-0.70208822	0.00000000	-69.76457982
0.00000000	-0.75500592	0.00000000	-70.41702729
0.00000000	-0.64917052	0.00000000	-69.74271994
2.05800137	0.04406596	0.00000000	-12.96576371
2.16383676	0.04406596	0.00000000	-6.55255692
2.11091906	-0.00885174	0.00000000	-11.48543737
2.11091906	0.09698366	0.00000000	-13.65091754
1.27232327	1.15754064	0.00000000	49.56073929
1.37815866	1.15754064	0.00000000	43.89711548
1.32524096	1.10462294	0.00000000	42.27686781
1.32524096	1.21045834	0.00000000	32.68259385
-0.09470669	0.70146698	0.00000000	-140.05398098
0.01112871	0.70146698	0.00000000	-142.04732303
-0.04178899	0.64854929	0.00000000	-1.33543053
-0.04178899	0.75438469	0.00000000	-10.22156106
-1.21473924	-1.48163476	0.00000000	28.91080302
-1.10890384	-1.48163476	0.00000000	32.07717798
-1.16182154	-1.53455246	0.00000000	13.59181767
-1.16182154	-1.42871706	0.00000000	16.97582422
-2.43005336	-0.81881509	0.00000000	-4.62306498
-2.32421796	-0.81881509	0.00000000	-6.14479169
-2.37713566	-0.87173279	0.00000000	-1.88855628
-2.37713566	-0.76589740	0.00000000	-1.73817666
-2.49323545	0.59060577	0.00000000	-10.85186362
-2.38740004	0.59060577	0.00000000	-14.34908408
-2.44031774	0.53768808	0.00000000	5.64736697
-2.44031774	0.64352347	0.00000000	5.48719623
-1.33902835	1.35334636	0.00000000	30.47097432
-1.23319294	1.35334636	0.00000000	33.40446340
-1.28611065	1.30042866	0.00000000	54.87920693
-1.28611065	1.40626406	0.00000000	45.25052874
45 2657.0 # 737.7 nm, (r3v2r2v4) 45			
0.04611	0.087858	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-138.17684324
0.00000000	-0.70208822	0.00000000	256.11316598
2.11091906	0.04406596	0.00000000	40.78782969
1.32524096	1.15754064	0.00000000	-155.36373791
-0.04178899	0.70146698	0.00000000	271.91546873
-1.16182154	-1.48163476	0.00000000	-84.59603796
-2.37713566	-0.81881509	0.00000000	13.25704879
-2.44031774	0.59060577	0.00000000	12.82196548
-1.28611065	1.35334636	0.00000000	-151.56014061
1.26584879	-1.08237463	0.00000000	35.41866132
1.37168419	-1.08237463	0.00000000	30.41109851
1.31876649	-1.13529233	0.00000000	33.01420818
1.31876649	-1.02945693	0.00000000	40.25290090
-0.05291770	-0.70208822	0.00000000	-62.29263246
0.05291770	-0.70208822	0.00000000	-64.86881983
0.00000000	-0.75500592	0.00000000	-65.47548152
0.00000000	-0.64917052	0.00000000	-64.84849398
2.05800137	0.04406596	0.00000000	-12.05588556
2.16383676	0.04406596	0.00000000	-6.09272836
2.11091906	-0.00885174	0.00000000	-10.67944177
2.11091906	0.09698366	0.00000000	-12.69295842
1.27232327	1.15754064	0.00000000	46.08279268
1.37815866	1.15754064	0.00000000	40.81661614
1.32524096	1.10462294	0.00000000	39.31007007
1.32524096	1.21045834	0.00000000	30.38907849
-0.09470669	0.70146698	0.00000000	-130.22563144
0.01112871	0.70146698	0.00000000	-132.07908983
-0.04178899	0.64854929	0.00000000	-1.24171611
-0.04178899	0.75438469	0.00000000	-9.50425853
-1.21473924	-1.48163476	0.00000000	26.88197474
-1.10890384	-1.48163476	0.00000000	29.82614794
-1.16182154	-1.53455246	0.00000000	12.63800590
-1.16182154	-1.42871706	0.00000000	15.78453831
-2.43005336	-0.81881509	0.00000000	-4.29863937
-2.32421796	-0.81881509	0.00000000	-5.71357824
-2.37713566	-0.87173279	0.00000000	-1.75602602
-2.37713566	-0.76589740	0.00000000	-1.61619935
-2.49323545	0.59060577	0.00000000	-10.09032933
-2.38740004	0.59060577	0.00000000	-13.34213082
-2.44031774	0.53768808	0.00000000	5.25106052
-2.44031774	0.64352347	0.00000000	5.10212983

-1.33902835	1.35334636	0.00000000	28.33266034
-1.23319294	1.35334636	0.00000000	31.06029053
-1.28611065	1.30042866	0.00000000	51.02803452
-1.28611065	1.40626406	0.00000000	42.07505304
45 2657.0 # 737.7 nm, (r3v3r2v4) 45			
0.02784	0.053046	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-83.42752800
0.00000000	-0.70208822	0.00000000	154.63436436
2.11091906	0.04406596	0.00000000	24.62661415
1.32524096	1.15754064	0.00000000	-93.80452100
-0.04178899	0.70146698	0.00000000	164.17537734
-1.16182154	-1.48163476	0.00000000	-51.07685311
-2.37713566	-0.81881509	0.00000000	8.00425587
-2.44031774	0.59060577	0.00000000	7.74156407
-1.28611065	1.35334636	0.00000000	-91.50800942
1.26584879	-1.08237463	0.00000000	21.38485212
1.37168419	-1.08237463	0.00000000	18.36141797
1.31876649	-1.13529233	0.00000000	19.93310683
1.31876649	-1.02945693	0.00000000	24.30363828
-0.05291770	-0.70208822	0.00000000	-37.61064601
0.05291770	-0.70208822	0.00000000	-39.16607990
0.00000000	-0.75500592	0.00000000	-39.53236620
0.00000000	-0.64917052	0.00000000	-39.15380768
2.05800137	0.04406596	0.00000000	-7.27902524
2.16383676	0.04406596	0.00000000	-3.67862844
2.11091906	-0.00885174	0.00000000	-6.44796484
2.11091906	0.09698366	0.00000000	-7.66367301
1.27232327	1.15754064	0.00000000	27.82357294
1.37815866	1.15754064	0.00000000	24.64399465
1.32524096	1.10462294	0.00000000	23.73438193
1.32524096	1.21045834	0.00000000	18.34812286
-0.09470669	0.70146698	0.00000000	-78.62679634
0.01112871	0.70146698	0.00000000	-79.74586556
-0.04178899	0.64854929	0.00000000	-0.74971539
-0.04178899	0.75438469	0.00000000	-5.73842025
-1.21473924	-1.48163476	0.00000000	16.23062626
-1.10890384	-1.48163476	0.00000000	18.00824027
-1.16182154	-1.53455246	0.00000000	7.63049413
-1.16182154	-1.42871706	0.00000000	9.53028728
-2.43005336	-0.81881509	0.00000000	-2.59540490
-2.32421796	-0.81881509	0.00000000	-3.44970762
-2.37713566	-0.87173279	0.00000000	-1.06024212
-2.37713566	-0.76589740	0.00000000	-0.97581848
-2.49323545	0.59060577	0.00000000	-6.09227431
-2.38740004	0.59060577	0.00000000	-8.05562615
-2.44031774	0.53768808	0.00000000	3.17045163
-2.44031774	0.64352347	0.00000000	3.08053122
-1.33902835	1.35334636	0.00000000	17.10651190
-1.23319294	1.35334636	0.00000000	18.75338296
-1.28611065	1.30042866	0.00000000	30.80937933
-1.28611065	1.40626406	0.00000000	25.40380561
45 2657.0 # 737.7 nm, (r3v4r2v4) 45			
0.02958	0.056362	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-88.64174850
0.00000000	-0.70208822	0.00000000	164.29901214
2.11091906	0.04406596	0.00000000	26.16577753
1.32524096	1.15754064	0.00000000	-99.66730356
-0.04178899	0.70146698	0.00000000	174.43633843
-1.16182154	-1.48163476	0.00000000	-54.26915643
-2.37713566	-0.81881509	0.00000000	8.50452186
-2.44031774	0.59060577	0.00000000	8.22541182
-1.28611065	1.35334636	0.00000000	-97.22726001
1.26584879	-1.08237463	0.00000000	22.72140537
1.37168419	-1.08237463	0.00000000	19.50900659
1.31876649	-1.13529233	0.00000000	21.17892600
1.31876649	-1.02945693	0.00000000	25.82261567
-0.05291770	-0.70208822	0.00000000	-39.96131139
0.05291770	-0.70208822	0.00000000	-41.61395989
0.00000000	-0.75500592	0.00000000	-42.00313909
0.00000000	-0.64917052	0.00000000	-41.60092066
2.05800137	0.04406596	0.00000000	-7.73396432
2.16383676	0.04406596	0.00000000	-3.90854272
2.11091906	-0.00885174	0.00000000	-6.85096264
2.11091906	0.09698366	0.00000000	-8.14265257
1.27232327	1.15754064	0.00000000	29.56254625
1.37815866	1.15754064	0.00000000	26.18424432
1.32524096	1.10462294	0.00000000	25.21778080
1.32524096	1.21045834	0.00000000	19.49488054
-0.09470669	0.70146698	0.00000000	-83.54097111
0.01112871	0.70146698	0.00000000	-84.72998216
-0.04178899	0.64854929	0.00000000	-0.79657260
-0.04178899	0.75438469	0.00000000	-6.09707151
-1.21473924	-1.48163476	0.00000000	17.24504040
-1.10890384	-1.48163476	0.00000000	19.13375528
-1.16182154	-1.53455246	0.00000000	8.10740001

-1.16182154	-1.42871706	0.00000000	10.12593024
-2.43005336	-0.81881509	0.00000000	-2.75761771
-2.32421796	-0.81881509	0.00000000	-3.66531434
-2.37713566	-0.87173279	0.00000000	-1.12650726
-2.37713566	-0.76589740	0.00000000	-1.03680713
-2.49323545	0.59060577	0.00000000	-6.47304146
-2.38740004	0.59060577	0.00000000	-8.55910279
-2.44031774	0.53768808	0.00000000	3.36860486
-2.44031774	0.64352347	0.00000000	3.27306442
-1.33902835	1.35334636	0.00000000	18.17566890
-1.23319294	1.35334636	0.00000000	19.92546940
-1.28611065	1.30042866	0.00000000	32.73496554
-1.28611065	1.40626406	0.00000000	26.99154346
45	2657.0 # 737.7 nm, (r3v5r2v4) 45		
0.0261	0.049731	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-78.21330750
0.00000000	-0.70208822	0.00000000	144.96971659
2.11091906	0.04406596	0.00000000	23.08745077
1.32524096	1.15754064	0.00000000	-87.94173844
-0.04178899	0.70146698	0.00000000	153.91441626
-1.16182154	-1.48163476	0.00000000	-47.88454979
-2.37713566	-0.81881509	0.00000000	7.50398988
-2.44031774	0.59060577	0.00000000	7.25771631
-1.28611065	1.35334636	0.00000000	-85.78875884
1.26584879	-1.08237463	0.00000000	20.04829886
1.37168419	-1.08237463	0.00000000	17.21382935
1.31876649	-1.13529233	0.00000000	18.68728765
1.31876649	-1.02945693	0.00000000	22.78466089
-0.05291770	-0.70208822	0.00000000	-35.25998064
0.05291770	-0.70208822	0.00000000	-36.71819991
0.00000000	-0.75500592	0.00000000	-37.06159331
0.00000000	-0.64917052	0.00000000	-36.70669470
2.05800137	0.04406596	0.00000000	-6.82408616
2.16383676	0.04406596	0.00000000	-3.44871417
2.11091906	-0.00885174	0.00000000	-6.04496704
2.11091906	0.09698366	0.00000000	-7.18469344
1.27232327	1.15754064	0.00000000	26.08459963
1.37815866	1.15754064	0.00000000	23.10374499
1.32524096	1.10462294	0.00000000	22.25098306
1.32524096	1.21045834	0.00000000	17.20136518
-0.09470669	0.70146698	0.00000000	-73.71262157
0.01112871	0.70146698	0.00000000	-74.76174896
-0.04178899	0.64854929	0.00000000	-0.70285817
-0.04178899	0.75438469	0.00000000	-5.37976898
-1.21473924	-1.48163476	0.00000000	15.21621211
-1.10890384	-1.48163476	0.00000000	16.88272525
-1.16182154	-1.53455246	0.00000000	7.15358825
-1.16182154	-1.42871706	0.00000000	8.93464433
-2.43005336	-0.81881509	0.00000000	-2.43319209
-2.32421796	-0.81881509	0.00000000	-3.23410089
-2.37713566	-0.87173279	0.00000000	-0.99397699
-2.37713566	-0.76589740	0.00000000	-0.91482982
-2.49323545	0.59060577	0.00000000	-5.71150717
-2.38740004	0.59060577	0.00000000	-7.55214952
-2.44031774	0.53768808	0.00000000	2.97229841
-2.44031774	0.64352347	0.00000000	2.88799802
-1.33902835	1.35334636	0.00000000	16.03735491
-1.23319294	1.35334636	0.00000000	17.58129653
-1.28611065	1.30042866	0.00000000	28.88379312
-1.28611065	1.40626406	0.00000000	23.81606776
45	2657.0 # 737.7 nm, (r3v6r2v4) 45		
0.01566	0.029839	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-46.92798450
0.00000000	-0.70208822	0.00000000	86.98182995
2.11091906	0.04406596	0.00000000	13.85247046
1.32524096	1.15754064	0.00000000	-52.76504306
-0.04178899	0.70146698	0.00000000	92.34864976
-1.16182154	-1.48163476	0.00000000	-28.73072987
-2.37713566	-0.81881509	0.00000000	4.50239393
-2.44031774	0.59060577	0.00000000	4.35462979
-1.28611065	1.35334636	0.00000000	-51.47325530
1.26584879	-1.08237463	0.00000000	12.02897932
1.37168419	-1.08237463	0.00000000	10.32829761
1.31876649	-1.13529233	0.00000000	11.21237259
1.31876649	-1.02945693	0.00000000	13.67079653
-0.05291770	-0.70208822	0.00000000	-21.15598838
0.05291770	-0.70208822	0.00000000	-22.03091994
0.00000000	-0.75500592	0.00000000	-22.23695599
0.00000000	-0.64917052	0.00000000	-22.02401682
2.05800137	0.04406596	0.00000000	-4.09445170
2.16383676	0.04406596	0.00000000	-2.06922850
2.11091906	-0.00885174	0.00000000	-3.62698022
2.11091906	0.09698366	0.00000000	-4.31081607
1.27232327	1.15754064	0.00000000	15.65075978
1.37815866	1.15754064	0.00000000	13.86224699

1.32524096	1.10462294	0.00000000	13.35058983
1.32524096	1.21045834	0.00000000	10.32081911
-0.09470669	0.70146698	0.00000000	-44.22757294
0.01112871	0.70146698	0.00000000	-44.85704938
-0.04178899	0.64854929	0.00000000	-0.42171490
-0.04178899	0.75438469	0.00000000	-3.22786139
-1.21473924	-1.48163476	0.00000000	9.12972727
-1.10890384	-1.48163476	0.00000000	10.12963515
-1.16182154	-1.53455246	0.00000000	4.29215295
-1.16182154	-1.42871706	0.00000000	5.36078660
-2.43005336	-0.81881509	0.00000000	-1.45991526
-2.32421796	-0.81881509	0.00000000	-1.94046053
-2.37713566	-0.87173279	0.00000000	-0.59638620
-2.37713566	-0.76589740	0.00000000	-0.54889789
-2.49323545	0.59060577	0.00000000	-3.42690430
-2.38740004	0.59060577	0.00000000	-4.53128971
-2.44031774	0.53768808	0.00000000	1.78337904
-2.44031774	0.64352347	0.00000000	1.73279881
-1.33902835	1.35334636	0.00000000	9.62241294
-1.23319294	1.35334636	0.00000000	10.54877792
-1.28611065	1.30042866	0.00000000	17.33027587
-1.28611065	1.40626406	0.00000000	14.28964065
45 2657.0 # 737.7 nm, (r3v7r2v4) 45			
0.01653	0.031496	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-49.53509475
0.00000000	-0.70208822	0.00000000	91.81415384
2.11091906	0.04406596	0.00000000	14.62205215
1.32524096	1.15754064	0.00000000	-55.69643434
-0.04178899	0.70146698	0.00000000	97.47913030
-1.16182154	-1.48163476	0.00000000	-30.32688153
-2.37713566	-0.81881509	0.00000000	4.75252692
-2.44031774	0.59060577	0.00000000	4.59655366
-1.28611065	1.35334636	0.00000000	-54.33288060
1.26584879	-1.08237463	0.00000000	12.69725594
1.37168419	-1.08237463	0.00000000	10.90209192
1.31876649	-1.13529233	0.00000000	11.83528218
1.31876649	-1.02945693	0.00000000	14.43028523
-0.05291770	-0.70208822	0.00000000	-22.33132107
0.05291770	-0.70208822	0.00000000	-23.25485994
0.00000000	-0.75500592	0.00000000	-23.47234243
0.00000000	-0.64917052	0.00000000	-23.24757331
2.05800137	0.04406596	0.00000000	-4.32192124
2.16383676	0.04406596	0.00000000	-2.18418564
2.11091906	-0.00885174	0.00000000	-3.82847912
2.11091906	0.09698366	0.00000000	-4.55030585
1.27232327	1.15754064	0.00000000	16.52024643
1.37815866	1.15754064	0.00000000	14.63237183
1.32524096	1.10462294	0.00000000	14.09228927
1.32524096	1.21045834	0.00000000	10.89419795
-0.09470669	0.70146698	0.00000000	-46.68466033
0.01112871	0.70146698	0.00000000	-47.34910768
-0.04178899	0.64854929	0.00000000	-0.44514351
-0.04178899	0.75438469	0.00000000	-3.40718702
-1.21473924	-1.48163476	0.00000000	9.63693434
-1.10890384	-1.48163476	0.00000000	10.69239266
-1.16182154	-1.53455246	0.00000000	4.53060589
-1.16182154	-1.42871706	0.00000000	5.65860807
-2.43005336	-0.81881509	0.00000000	-1.54102166
-2.32421796	-0.81881509	0.00000000	-2.04826390
-2.37713566	-0.87173279	0.00000000	-0.62951876
-2.37713566	-0.76589740	0.00000000	-0.57939222
-2.49323545	0.59060577	0.00000000	-3.61728787
-2.38740004	0.59060577	0.00000000	-4.78302803
-2.44031774	0.53768808	0.00000000	1.88245566
-2.44031774	0.64352347	0.00000000	1.82906541
-1.33902835	1.35334636	0.00000000	10.15699144
-1.23319294	1.35334636	0.00000000	11.13482113
-1.28611065	1.30042866	0.00000000	18.29306898
-1.28611065	1.40626406	0.00000000	15.08350958
45 2657.0 # 737.7 nm, (r3v8r2v4) 45			
0.00696	0.013262	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-20.85688200
0.00000000	-0.70208822	0.00000000	38.65859109
2.11091906	0.04406596	0.00000000	6.15665354
1.32524096	1.15754064	0.00000000	-23.45113025
-0.04178899	0.70146698	0.00000000	41.04384434
-1.16182154	-1.48163476	0.00000000	-12.76921328
-2.37713566	-0.81881509	0.00000000	2.00106397
-2.44031774	0.59060577	0.00000000	1.93539102
-1.28611065	1.35334636	0.00000000	-22.87700236
1.26584879	-1.08237463	0.00000000	5.34621303
1.37168419	-1.08237463	0.00000000	4.59035449
1.31876649	-1.13529233	0.00000000	4.98327671
1.31876649	-1.02945693	0.00000000	6.07590957
-0.05291770	-0.70208822	0.00000000	-9.40266150

0.05291770	-0.70208822	0.00000000	-9.79151997
0.00000000	-0.75500592	0.00000000	-9.88309155
0.00000000	-0.64917052	0.00000000	-9.78845192
2.05800137	0.04406596	0.00000000	-1.81975631
2.16383676	0.04406596	0.00000000	-0.91965711
2.11091906	-0.00885174	0.00000000	-1.61199121
2.11091906	0.09698366	0.00000000	-1.91591825
1.27232327	1.15754064	0.00000000	6.95589323
1.37815866	1.15754064	0.00000000	6.16099866
1.32524096	1.10462294	0.00000000	5.93359548
1.32524096	1.21045834	0.00000000	4.58703072
-0.09470669	0.70146698	0.00000000	-19.65669908
0.01112871	0.70146698	0.00000000	-19.93646639
-0.04178899	0.64854929	0.00000000	-0.18742885
-0.04178899	0.75438469	0.00000000	-1.43460506
-1.21473924	-1.48163476	0.00000000	4.05765656
-1.10890384	-1.48163476	0.00000000	4.50206007
-1.16182154	-1.53455246	0.00000000	1.90762353
-1.16182154	-1.42871706	0.00000000	2.38257182
-2.43005336	-0.81881509	0.00000000	-0.64885123
-2.32421796	-0.81881509	0.00000000	-0.86242690
-2.37713566	-0.87173279	0.00000000	-0.26506053
-2.37713566	-0.76589740	0.00000000	-0.24395462
-2.49323545	0.59060577	0.00000000	-1.52306858
-2.38740004	0.59060577	0.00000000	-2.01390654
-2.44031774	0.53768808	0.00000000	0.79261291
-2.44031774	0.64352347	0.00000000	0.77013280
-1.33902835	1.35334636	0.00000000	4.27662798
-1.23319294	1.35334636	0.00000000	4.68834574
-1.28611065	1.30042866	0.00000000	7.70234483
-1.28611065	1.40626406	0.00000000	6.35095140
45	2657.0 # 737.7 nm, (r3v9r2v4) 45		
0.0087	0.016577	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-26.07110250
0.00000000	-0.70208822	0.00000000	48.32323886
2.11091906	0.04406596	0.00000000	7.69581692
1.32524096	1.15754064	0.00000000	-29.31391281
-0.04178899	0.70146698	0.00000000	51.30480542
-1.16182154	-1.48163476	0.00000000	-15.96151660
-2.37713566	-0.81881509	0.00000000	2.50132996
-2.44031774	0.59060577	0.00000000	2.41923877
-1.28611065	1.35334636	0.00000000	-28.59625295
1.26584879	-1.08237463	0.00000000	6.68276629
1.37168419	-1.08237463	0.00000000	5.73794312
1.31876649	-1.13529233	0.00000000	6.22909588
1.31876649	-1.02945693	0.00000000	7.59488696
-0.05291770	-0.70208822	0.00000000	-11.75332688
0.05291770	-0.70208822	0.00000000	-12.23939997
0.00000000	-0.75500592	0.00000000	-12.35386444
0.00000000	-0.64917052	0.00000000	-12.23556490
2.05800137	0.04406596	0.00000000	-2.27469539
2.16383676	0.04406596	0.00000000	-1.14957139
2.11091906	-0.00885174	0.00000000	-2.01498901
2.11091906	0.09698366	0.00000000	-2.39489781
1.27232327	1.15754064	0.00000000	8.69486654
1.37815866	1.15754064	0.00000000	7.70124833
1.32524096	1.10462294	0.00000000	7.41699435
1.32524096	1.21045834	0.00000000	5.73378839
-0.09470669	0.70146698	0.00000000	-24.57087386
0.01112871	0.70146698	0.00000000	-24.92058299
-0.04178899	0.64854929	0.00000000	-0.23428606
-0.04178899	0.75438469	0.00000000	-1.79325633
-1.21473924	-1.48163476	0.00000000	5.07207070
-1.10890384	-1.48163476	0.00000000	5.62757508
-1.16182154	-1.53455246	0.00000000	2.38452942
-1.16182154	-1.42871706	0.00000000	2.97821478
-2.43005336	-0.81881509	0.00000000	-0.81106403
-2.32421796	-0.81881509	0.00000000	-1.07803363
-2.37713566	-0.87173279	0.00000000	-0.33132566
-2.37713566	-0.76589740	0.00000000	-0.30494327
-2.49323545	0.59060577	0.00000000	-1.90383572
-2.38740004	0.59060577	0.00000000	-2.51738317
-2.44031774	0.53768808	0.00000000	0.99076614
-2.44031774	0.64352347	0.00000000	0.96266601
-1.33902835	1.35334636	0.00000000	5.34578497
-1.23319294	1.35334636	0.00000000	5.86043218
-1.28611065	1.30042866	0.00000000	9.62793104
-1.28611065	1.40626406	0.00000000	7.93868925
45	13555.0 # 737.7 nm, (r7r2v4) 45		
0.12007	-0.02816	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.8485163126	# magnet. mom.
1.31876649	-1.08237463	0.00000000	8.12951557
0.00000000	-0.70208822	0.00000000	3.93443449
2.11091906	0.04406596	0.00000000	3.48279790
1.32524096	1.15754064	0.00000000	-5.03624300
-0.04178899	0.70146698	0.00000000	44.23286927

-1.16182154	-1.48163476	0.00000000	-46.47021425
-2.37713566	-0.81881509	0.00000000	26.34821224
-2.44031774	0.59060577	0.00000000	-11.45850734
-1.28611065	1.35334636	0.00000000	-20.64369404
1.26584879	-1.08237463	0.00000000	-2.49952895
1.37168419	-1.08237463	0.00000000	-1.78055941
1.31876649	-1.13529233	0.00000000	-1.51727249
1.31876649	-1.02945693	0.00000000	-2.47073541
-0.05291770	-0.70208822	0.00000000	17.18567605
0.05291770	-0.70208822	0.00000000	17.66538897
0.00000000	-0.75500592	0.00000000	-18.06834765
0.00000000	-0.64917052	0.00000000	-20.68137490
2.05800137	0.04406596	0.00000000	-2.36751651
2.16383676	0.04406596	0.00000000	-2.28741725
2.11091906	-0.00885174	0.00000000	0.29290969
2.11091906	0.09698366	0.00000000	0.94209985
1.27232327	1.15754064	0.00000000	-6.25709755
1.37815866	1.15754064	0.00000000	-5.41939555
1.32524096	1.10462294	0.00000000	8.99309825
1.32524096	1.21045834	0.00000000	7.69858754
-0.09470669	0.70146698	0.00000000	-22.64448100
0.01112871	0.70146698	0.00000000	-23.84463155
-0.04178899	0.64854929	0.00000000	0.86718097
-0.04178899	0.75438469	0.00000000	1.61278312
-1.21473924	-1.48163476	0.00000000	16.34380704
-1.10890384	-1.48163476	0.00000000	16.94543521
-1.16182154	-1.53455246	0.00000000	6.56426260
-1.16182154	-1.42871706	0.00000000	6.51327335
-2.43005336	-0.81881509	0.00000000	-6.85306816
-2.32421796	-0.81881509	0.00000000	-7.27648944
-2.37713566	-0.87173279	0.00000000	-6.07458327
-2.37713566	-0.76589740	0.00000000	-6.03046633
-2.49323545	0.59060577	0.00000000	5.89172357
-2.38740004	0.59060577	0.00000000	6.96706858
-2.44031774	0.53768808	0.00000000	-1.38794712
-2.44031774	0.64352347	0.00000000	-0.03723483
-1.33902835	1.35334636	0.00000000	2.30086076
-1.23319294	1.35334636	0.00000000	2.13466393
-1.28611065	1.30042866	0.00000000	8.23100362
-1.28611065	1.40626406	0.00000000	7.82915338
45	15636.0 # 639.5 nm, (rRr2v4) 45		
-0.3156	0.045266	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.9999114666E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-17.23416499
0.00000000	-0.70208822	0.00000000	57.05475024
2.11091906	0.04406596	0.00000000	7.87891130
1.32524096	1.15754064	0.00000000	63.01611207
-0.04178899	0.70146698	0.00000000	-105.03180957
-1.16182154	-1.48163476	0.00000000	-11.37016997
-2.37713566	-0.81881509	0.00000000	19.72383138
-2.44031774	0.59060577	0.00000000	-18.87623178
-1.28611065	1.35334636	0.00000000	46.48322363
1.26584879	-1.08237463	0.00000000	2.08670514
1.37168419	-1.08237463	0.00000000	2.10778366
1.31876649	-1.13529233	0.00000000	6.40790498
1.31876649	-1.02945693	0.00000000	6.72455788
-0.05291770	-0.70208822	0.00000000	-13.46461583
0.05291770	-0.70208822	0.00000000	-11.96894134
0.00000000	-0.75500592	0.00000000	-16.14204054
0.00000000	-0.64917052	0.00000000	-15.63738708
2.05800137	0.04406596	0.00000000	2.68553460
2.16383676	0.04406596	0.00000000	2.55756193
2.11091906	-0.00885174	0.00000000	-8.38590942
2.11091906	0.09698366	0.00000000	-4.78337819
1.27232327	1.15754064	0.00000000	-17.20921625
1.37815866	1.15754064	0.00000000	-16.56359554
1.32524096	1.10462294	0.00000000	-15.42579048
1.32524096	1.21045834	0.00000000	-13.93978798
-0.09470669	0.70146698	0.00000000	42.09766448
0.01112871	0.70146698	0.00000000	39.33260280
-0.04178899	0.64854929	0.00000000	11.07825128
-0.04178899	0.75438469	0.00000000	12.71984902
-1.21473924	-1.48163476	0.00000000	0.44137983
-1.10890384	-1.48163476	0.00000000	1.21749704
-1.16182154	-1.53455246	0.00000000	3.86548055
-1.16182154	-1.42871706	0.00000000	6.11330938
-2.43005336	-0.81881509	0.00000000	-12.06409453
-2.32421796	-0.81881509	0.00000000	-14.09091482
-2.37713566	-0.87173279	0.00000000	2.92960856
-2.37713566	-0.76589740	0.00000000	3.36987412
-2.49323545	0.59060577	0.00000000	2.07567710
-2.38740004	0.59060577	0.00000000	4.14226140
-2.44031774	0.53768808	0.00000000	6.85126869
-2.44031774	0.64352347	0.00000000	6.06077136
-1.33902835	1.35334636	0.00000000	-12.32004391
-1.23319294	1.35334636	0.00000000	-12.44841135
-1.28611065	1.30042866	0.00000000	-12.48887347

	-1.28611065	1.40626406	0.00000000	-9.57699542
&TRANSITION 6->...				
0	0.0 # (r2v6r2v5) 45			
	0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r2v7vr2v5) 45			
	0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	0.00000000	# magnet. mom.
45	2657.0 # 737.7 nm, (r3v1r2v5) 45			
	0.071151	0.135571	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	-1.664952771	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-213.21627739
	0.00000000	-0.70208822	0.00000000	395.20005349
	2.11091906	0.04406596	0.00000000	62.93839839
	1.32524096	1.15754064	0.00000000	-239.73682609
	-0.04178899	0.70146698	0.00000000	419.58408259
	-1.16182154	-1.48163476	0.00000000	-130.53744659
	-2.37713566	-0.81881509	0.00000000	20.45652893
	-2.44031774	0.59060577	0.00000000	19.78516577
	-1.28611065	1.35334636	0.00000000	-233.86761648
	1.26584879	-1.08237463	0.00000000	54.65340602
	1.37168419	-1.08237463	0.00000000	46.92639565
	1.31876649	-1.13529233	0.00000000	50.94317112
	1.31876649	-1.02945693	0.00000000	62.11296686
	-0.05291770	-0.70208822	0.00000000	-96.12177331
	0.05291770	-0.70208822	0.00000000	-100.09700583
	0.00000000	-0.75500592	0.00000000	-101.03312612
	0.00000000	-0.64917052	0.00000000	-100.06564165
	2.05800137	0.04406596	0.00000000	-18.60305228
	2.16383676	0.04406596	0.00000000	-9.40149471
	2.11091906	-0.00885174	0.00000000	-16.47910579
	2.11091906	0.09698366	0.00000000	-19.58609909
	1.27232327	1.15754064	0.00000000	71.10888681
	1.37815866	1.15754064	0.00000000	62.98281786
	1.32524096	1.10462294	0.00000000	60.65811468
	1.32524096	1.21045834	0.00000000	46.89241726
	-0.09470669	0.70146698	0.00000000	-200.94701619
	0.01112871	0.70146698	0.00000000	-203.80702869
	-0.04178899	0.64854929	0.00000000	-1.91605250
	-0.04178899	0.75438469	0.00000000	-14.66571805
	-1.21473924	-1.48163476	0.00000000	41.48071737
	-1.10890384	-1.48163476	0.00000000	46.02377710
	-1.16182154	-1.53455246	0.00000000	19.50130361
	-1.16182154	-1.42871706	0.00000000	24.35661736
	-2.43005336	-0.81881509	0.00000000	-6.63309323
	-2.32421796	-0.81881509	0.00000000	-8.81644025
	-2.37713566	-0.87173279	0.00000000	-2.70966771
	-2.37713566	-0.76589740	0.00000000	-2.49390565
	-2.49323545	0.59060577	0.00000000	-15.57006519
	-2.38740004	0.59060577	0.00000000	-20.58781629
	-2.44031774	0.53768808	0.00000000	8.10274392
	-2.44031774	0.64352347	0.00000000	7.87293372
	-1.33902835	1.35334636	0.00000000	43.71922403
	-1.23319294	1.35334636	0.00000000	47.92814314
	-1.28611065	1.30042866	0.00000000	78.73973169
	-1.28611065	1.40626406	0.00000000	64.92467167
45	2657.0 # 737.7 nm, (r3v2r2v5) 45			
	0.066158	0.126057	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	-1.664952771	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-198.25373161
	0.00000000	-0.70208822	0.00000000	367.46671640
	2.11091906	0.04406596	0.00000000	58.52166868
	1.32524096	1.15754064	0.00000000	-222.91318917
	-0.04178899	0.70146698	0.00000000	390.13958556
	-1.16182154	-1.48163476	0.00000000	-121.37692403
	-2.37713566	-0.81881509	0.00000000	19.02098304
	-2.44031774	0.59060577	0.00000000	18.39673309
	-1.28611065	1.35334636	0.00000000	-217.45585392
	1.26584879	-1.08237463	0.00000000	50.81807928
	1.37168419	-1.08237463	0.00000000	43.63331525
	1.31876649	-1.13529233	0.00000000	47.36821174
	1.31876649	-1.02945693	0.00000000	57.75416217
	-0.05291770	-0.70208822	0.00000000	-89.37638571
	0.05291770	-0.70208822	0.00000000	-93.07265454
	0.00000000	-0.75500592	0.00000000	-93.94308218
	0.00000000	-0.64917052	0.00000000	-93.04349136
	2.05800137	0.04406596	0.00000000	-17.29757493
	2.16383676	0.04406596	0.00000000	-8.74174069
	2.11091906	-0.00885174	0.00000000	-15.32267732
	2.11091906	0.09698366	0.00000000	-18.21163599
	1.27232327	1.15754064	0.00000000	66.11878949
	1.37815866	1.15754064	0.00000000	58.56297099
	1.32524096	1.10462294	0.00000000	56.40140488
	1.32524096	1.21045834	0.00000000	43.60172131
	-0.09470669	0.70146698	0.00000000	-186.84547119
	0.01112871	0.70146698	0.00000000	-189.50478106
	-0.04178899	0.64854929	0.00000000	-1.78159267

-0.04178899	0.75438469	0.00000000	-13.63654485
-1.21473924	-1.48163476	0.00000000	38.56978984
-1.110890384	-1.48163476	0.00000000	42.79403835
-1.16182154	-1.53455246	0.00000000	18.13279108
-1.16182154	-1.42871706	0.00000000	22.64738105
-2.43005336	-0.81881509	0.00000000	-6.16761301
-2.32421796	-0.81881509	0.00000000	-8.19774269
-2.37713566	-0.87173279	0.00000000	-2.51951559
-2.37713566	-0.76589740	0.00000000	-2.31889472
-2.49323545	0.59060577	0.00000000	-14.47742904
-2.38740004	0.59060577	0.00000000	-19.14305726
-2.44031774	0.53768808	0.00000000	7.53413031
-2.44031774	0.64352347	0.00000000	7.32044714
-1.33902835	1.35334636	0.00000000	40.65120831
-1.23319294	1.35334636	0.00000000	44.56476467
-1.28611065	1.30042866	0.00000000	73.21413648
-1.28611065	1.40626406	0.00000000	60.36855436
45 2657.0 # 737.7 nm, (r3v3r2v5) 45			
0.039945	0.07611	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-119.70036626
0.00000000	-0.70208822	0.00000000	221.86669669
2.11091906	0.04406596	0.00000000	35.33383769
1.32524096	1.15754064	0.00000000	-134.58909535
-0.04178899	0.70146698	0.00000000	235.55597619
-1.16182154	-1.48163476	0.00000000	-73.28418054
-2.37713566	-0.81881509	0.00000000	11.48436712
-2.44031774	0.59060577	0.00000000	11.10746149
-1.28611065	1.35334636	0.00000000	-131.29410048
1.26584879	-1.08237463	0.00000000	30.68261391
1.37168419	-1.08237463	0.00000000	26.34464317
1.31876649	-1.13529233	0.00000000	28.59967501
1.31876649	-1.02945693	0.00000000	34.87043754
-0.05291770	-0.70208822	0.00000000	-53.96310080
0.05291770	-0.70208822	0.00000000	-56.19481029
0.00000000	-0.75500592	0.00000000	-56.72035150
0.00000000	-0.64917052	0.00000000	-56.17720233
2.05800137	0.04406596	0.00000000	-10.44381882
2.16383676	0.04406596	0.00000000	-5.27803212
2.11091906	-0.00885174	0.00000000	-9.25142781
2.11091906	0.09698366	0.00000000	-10.99570475
1.27232327	1.15754064	0.00000000	39.92077856
1.37815866	1.15754064	0.00000000	35.35877494
1.32524096	1.10462294	0.00000000	34.05367842
1.32524096	1.21045834	0.00000000	26.32556758
-0.09470669	0.70146698	0.00000000	-112.81235997
0.01112871	0.70146698	0.00000000	-114.41798102
-0.04178899	0.64854929	0.00000000	-1.07567860
-0.04178899	0.75438469	0.00000000	-8.23338557
-1.21473924	-1.48163476	0.00000000	23.28742028
-1.10890384	-1.48163476	0.00000000	25.83790995
-1.16182154	-1.53455246	0.00000000	10.94810027
-1.16182154	-1.42871706	0.00000000	13.67389045
-2.43005336	-0.81881509	0.00000000	-3.72384181
-2.32421796	-0.81881509	0.00000000	-4.94958049
-2.37713566	-0.87173279	0.00000000	-1.52121696
-2.37713566	-0.76589740	0.00000000	-1.40008738
-2.49323545	0.59060577	0.00000000	-8.74108923
-2.38740004	0.59060577	0.00000000	-11.55807231
-2.44031774	0.53768808	0.00000000	4.54890887
-2.44031774	0.64352347	0.00000000	4.41989261
-1.33902835	1.35334636	0.00000000	24.54412577
-1.23319294	1.35334636	0.00000000	26.90702773
-1.28611065	1.30042866	0.00000000	44.20476165
-1.28611065	1.40626406	0.00000000	36.44893848
45 2657.0 # 737.7 nm, (r3v4r2v5) 45			
0.042441	0.080867	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-127.18163915
0.00000000	-0.70208822	0.00000000	235.73336524
2.11091906	0.04406596	0.00000000	37.54220255
1.32524096	1.15754064	0.00000000	-143.00091381
-0.04178899	0.70146698	0.00000000	250.27822470
-1.16182154	-1.48163476	0.00000000	-77.86444183
-2.37713566	-0.81881509	0.00000000	12.20214006
-2.44031774	0.59060577	0.00000000	11.80167783
-1.28611065	1.35334636	0.00000000	-139.49998176
1.26584879	-1.08237463	0.00000000	32.60027728
1.37168419	-1.08237463	0.00000000	27.99118337
1.31876649	-1.13529233	0.00000000	30.38715470
1.31876649	-1.02945693	0.00000000	37.04983988
-0.05291770	-0.70208822	0.00000000	-57.33579460
0.05291770	-0.70208822	0.00000000	-59.70698593
0.00000000	-0.75500592	0.00000000	-60.26537347
0.00000000	-0.64917052	0.00000000	-59.68827747
2.05800137	0.04406596	0.00000000	-11.09655750
2.16383676	0.04406596	0.00000000	-5.60790912

	2.11091906	-0.00885174	0.00000000	-9.82964205
	2.11091906	0.09698366	0.00000000	-11.68293630
	1.27232327	1.15754064	0.00000000	42.41582722
	1.37815866	1.15754064	0.00000000	37.56869837
	1.32524096	1.10462294	0.00000000	36.18203332
	1.32524096	1.21045834	0.00000000	27.97091556
	-0.09470669	0.70146698	0.00000000	-119.86313246
	0.01112871	0.70146698	0.00000000	-121.56910483
	-0.04178899	0.64854929	0.00000000	-1.14290851
	-0.04178899	0.75438469	0.00000000	-8.74797217
	-1.21473924	-1.48163476	0.00000000	24.74288405
	-1.10890384	-1.48163476	0.00000000	27.45277932
	-1.16182154	-1.53455246	0.00000000	11.63235654
	-1.16182154	-1.42871706	0.00000000	14.52850860
	-2.43005336	-0.81881509	0.00000000	-3.95658193
	-2.32421796	-0.81881509	0.00000000	-5.25892927
	-2.37713566	-0.87173279	0.00000000	-1.61629302
	-2.37713566	-0.76589740	0.00000000	-1.48759284
	-2.49323545	0.59060577	0.00000000	-9.28740731
	-2.38740004	0.59060577	0.00000000	-12.28045182
	-2.44031774	0.53768808	0.00000000	4.83321567
	-2.44031774	0.64352347	0.00000000	4.69613590
	-1.33902835	1.35334636	0.00000000	26.07813363
	-1.23319294	1.35334636	0.00000000	28.58871696
	-1.28611065	1.30042866	0.00000000	46.96755925
	-1.28611065	1.40626406	0.00000000	38.72699713
45	2657.0 # 737.7 nm, (r3v5r2v5) 45			
	0.037448	0.071353	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	-1.664952771	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-112.21909336
	0.00000000	-0.70208822	0.00000000	208.00002815
	2.11091906	0.04406596	0.00000000	33.12547284
	1.32524096	1.15754064	0.00000000	-126.17727689
	-0.04178899	0.70146698	0.00000000	220.83372768
	-1.16182154	-1.48163476	0.00000000	-68.70391926
	-2.37713566	-0.81881509	0.00000000	10.76659417
	-2.44031774	0.59060577	0.00000000	10.41324514
	-1.28611065	1.35334636	0.00000000	-123.08821920
	1.26584879	-1.08237463	0.00000000	28.76495054
	1.37168419	-1.08237463	0.00000000	24.69810297
	1.31876649	-1.13529233	0.00000000	26.81219533
	1.31876649	-1.02945693	0.00000000	32.69103519
	-0.05291770	-0.70208822	0.00000000	-50.59040700
	0.05291770	-0.70208822	0.00000000	-52.68263465
	0.00000000	-0.75500592	0.00000000	-53.17532953
	0.00000000	-0.64917052	0.00000000	-52.66612718
	2.05800137	0.04406596	0.00000000	-9.79108015
	2.16383676	0.04406596	0.00000000	-4.94815511
	2.11091906	-0.00885174	0.00000000	-8.67321358
	2.11091906	0.09698366	0.00000000	-10.30847320
	1.27232327	1.15754064	0.00000000	37.42572990
	1.37815866	1.15754064	0.00000000	33.14885150
	1.32524096	1.10462294	0.00000000	31.92532352
	1.32524096	1.21045834	0.00000000	24.68021961
	-0.09470669	0.70146698	0.00000000	-105.76158747
	0.01112871	0.70146698	0.00000000	-107.26685720
	-0.04178899	0.64854929	0.00000000	-1.00844868
	-0.04178899	0.75438469	0.00000000	-7.71879897
	-1.21473924	-1.48163476	0.00000000	21.83195651
	-1.10890384	-1.48163476	0.00000000	24.22304058
	-1.16182154	-1.53455246	0.00000000	10.26384401
	-1.16182154	-1.42871706	0.00000000	12.81927229
	-2.43005336	-0.81881509	0.00000000	-3.49110170
	-2.32421796	-0.81881509	0.00000000	-4.64023171
	-2.37713566	-0.87173279	0.00000000	-1.42614090
	-2.37713566	-0.76589740	0.00000000	-1.31258192
	-2.49323545	0.59060577	0.00000000	-8.19477115
	-2.38740004	0.59060577	0.00000000	-10.83569279
	-2.44031774	0.53768808	0.00000000	4.26460206
	-2.44031774	0.64352347	0.00000000	4.14364933
	-1.33902835	1.35334636	0.00000000	23.01011791
	-1.23319294	1.35334636	0.00000000	25.22533850
	-1.28611065	1.30042866	0.00000000	41.44196405
	-1.28611065	1.40626406	0.00000000	34.17087982
45	2657.0 # 737.7 nm, (r3v6r2v5) 45			
	0.022469	0.042812	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	-1.664952771	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-67.33145602
	0.00000000	-0.70208822	0.00000000	124.80001689
	2.11091906	0.04406596	0.00000000	19.87528370
	1.32524096	1.15754064	0.00000000	-75.70636613
	-0.04178899	0.70146698	0.00000000	132.50023661
	-1.16182154	-1.48163476	0.00000000	-41.22235156
	-2.37713566	-0.81881509	0.00000000	6.45995650
	-2.44031774	0.59060577	0.00000000	6.24794709
	-1.28611065	1.35334636	0.00000000	-73.85293152
	1.26584879	-1.08237463	0.00000000	17.25897032

1.37168419	-1.08237463	0.00000000	14.81886178
1.31876649	-1.13529233	0.00000000	16.08731720
1.31876649	-1.02945693	0.00000000	19.61462111
-0.05291770	-0.70208822	0.00000000	-30.35424420
0.05291770	-0.70208822	0.00000000	-31.60958079
0.00000000	-0.75500592	0.00000000	-31.90519772
0.00000000	-0.64917052	0.00000000	-31.59967631
2.05800137	0.04406596	0.00000000	-5.87464809
2.16383676	0.04406596	0.00000000	-2.96889307
2.11091906	-0.00885174	0.00000000	-5.20392815
2.11091906	0.09698366	0.00000000	-6.18508392
1.27232327	1.15754064	0.00000000	22.45543794
1.37815866	1.15754064	0.00000000	19.88931090
1.32524096	1.10462294	0.00000000	19.15519411
1.32524096	1.21045834	0.00000000	14.80813177
-0.09470669	0.70146698	0.00000000	-63.45695248
0.01112871	0.70146698	0.00000000	-64.36011432
-0.04178899	0.64854929	0.00000000	-0.60506921
-0.04178899	0.75438469	0.00000000	-4.63127938
-1.21473924	-1.48163476	0.00000000	13.09917391
-1.10890384	-1.48163476	0.00000000	14.53382435
-1.16182154	-1.53455246	0.00000000	6.15830640
-1.16182154	-1.42871706	0.00000000	7.69156338
-2.43005336	-0.81881509	0.00000000	-2.09466102
-2.32421796	-0.81881509	0.00000000	-2.78413903
-2.37713566	-0.87173279	0.00000000	-0.85568454
-2.37713566	-0.76589740	0.00000000	-0.78754915
-2.49323545	0.59060577	0.00000000	-4.91686269
-2.38740004	0.59060577	0.00000000	-6.50141567
-2.44031774	0.53768808	0.00000000	2.55876124
-2.44031774	0.64352347	0.00000000	2.48618960
-1.33902835	1.35334636	0.00000000	13.80607075
-1.23319294	1.35334636	0.00000000	15.13520310
-1.28611065	1.30042866	0.00000000	24.86517843
-1.28611065	1.40626406	0.00000000	20.50252789
45 2657.0 # 737.7 nm, (r3v7r2v5) 45			
0.023717	0.04519	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-71.07209246
0.00000000	-0.70208822	0.00000000	131.73335116
2.11091906	0.04406596	0.00000000	20.97946613
1.32524096	1.15754064	0.00000000	-79.91227536
-0.04178899	0.70146698	0.00000000	139.86136086
-1.16182154	-1.48163476	0.00000000	-43.51248220
-2.37713566	-0.81881509	0.00000000	6.81884298
-2.44031774	0.59060577	0.00000000	6.59505526
-1.28611065	1.35334636	0.00000000	-77.95587216
1.26584879	-1.08237463	0.00000000	18.21780201
1.37168419	-1.08237463	0.00000000	15.64213188
1.31876649	-1.13529233	0.00000000	16.98105704
1.31876649	-1.02945693	0.00000000	20.70432229
-0.05291770	-0.70208822	0.00000000	-32.04059110
0.05291770	-0.70208822	0.00000000	-33.36566861
0.00000000	-0.75500592	0.00000000	-33.67770871
0.00000000	-0.64917052	0.00000000	-33.35521388
2.05800137	0.04406596	0.00000000	-6.20101743
2.16383676	0.04406596	0.00000000	-3.13383157
2.11091906	-0.00885174	0.00000000	-5.49303526
2.11091906	0.09698366	0.00000000	-6.52869970
1.27232327	1.15754064	0.00000000	23.70296227
1.37815866	1.15754064	0.00000000	20.99427262
1.32524096	1.10462294	0.00000000	20.21937156
1.32524096	1.21045834	0.00000000	15.63080575
-0.09470669	0.70146698	0.00000000	-66.98233873
0.01112871	0.70146698	0.00000000	-67.93567623
-0.04178899	0.64854929	0.00000000	-0.63868417
-0.04178899	0.75438469	0.00000000	-4.88857268
-1.21473924	-1.48163476	0.00000000	13.82690579
-1.10890384	-1.48163476	0.00000000	15.34125903
-1.16182154	-1.53455246	0.00000000	6.50043454
-1.16182154	-1.42871706	0.00000000	8.11887245
-2.43005336	-0.81881509	0.00000000	-2.21103108
-2.32421796	-0.81881509	0.00000000	-2.93881342
-2.37713566	-0.87173279	0.00000000	-0.90322257
-2.37713566	-0.76589740	0.00000000	-0.83130188
-2.49323545	0.59060577	0.00000000	-5.19002173
-2.38740004	0.59060577	0.00000000	-6.86260543
-2.44031774	0.53768808	0.00000000	2.70091464
-2.44031774	0.64352347	0.00000000	2.62431124
-1.33902835	1.35334636	0.00000000	14.57307468
-1.23319294	1.35334636	0.00000000	15.97604771
-1.28611065	1.30042866	0.00000000	26.24657723
-1.28611065	1.40626406	0.00000000	21.64155722
45 2657.0 # 737.7 nm, (r3v8r2v5) 45			
0.009986	0.019027	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-29.92509156

0.00000000	-0.70208822	0.00000000	55.46667417
2.11091906	0.04406596	0.00000000	8.83345942
1.32524096	1.15754064	0.00000000	-33.64727384
-0.04178899	0.70146698	0.00000000	58.88899405
-1.16182154	-1.48163476	0.00000000	-18.32104514
-2.37713566	-0.81881509	0.00000000	2.87109178
-2.44031774	0.59060577	0.00000000	2.77686537
-1.28611065	1.35334636	0.00000000	-32.82352512
1.26584879	-1.08237463	0.00000000	7.67065348
1.37168419	-1.08237463	0.00000000	6.58616079
1.31876649	-1.13529233	0.00000000	7.14991875
1.31876649	-1.02945693	0.00000000	8.71760938
-0.05291770	-0.70208822	0.00000000	-13.49077520
0.05291770	-0.70208822	0.00000000	-14.04870257
0.00000000	-0.75500592	0.00000000	-14.18008788
0.00000000	-0.64917052	0.00000000	-14.04430058
2.05800137	0.04406596	0.00000000	-2.61095471
2.16383676	0.04406596	0.00000000	-1.31950803
2.11091906	-0.00885174	0.00000000	-2.31285695
2.11091906	0.09698366	0.00000000	-2.74892619
1.27232327	1.15754064	0.00000000	9.98019464
1.37815866	1.15754064	0.00000000	8.83969373
1.32524096	1.10462294	0.00000000	8.51341960
1.32524096	1.21045834	0.00000000	6.58139190
-0.09470669	0.70146698	0.00000000	-28.20308999
0.01112871	0.70146698	0.00000000	-28.60449525
-0.04178899	0.64854929	0.00000000	-0.26891965
-0.04178899	0.75438469	0.00000000	-2.05834639
-1.21473924	-1.48163476	0.00000000	5.82185507
-1.10890384	-1.48163476	0.00000000	6.45947749
-1.16182154	-1.53455246	0.00000000	2.73702507
-1.16182154	-1.42871706	0.00000000	3.41847261
-2.43005336	-0.81881509	0.00000000	-0.93096045
-2.32421796	-0.81881509	0.00000000	-1.23739512
-2.37713566	-0.87173279	0.00000000	-0.38030424
-2.37713566	-0.76589740	0.00000000	-0.35002185
-2.49323545	0.59060577	0.00000000	-2.18527231
-2.38740004	0.59060577	0.00000000	-2.88951808
-2.44031774	0.53768808	0.00000000	1.13722722
-2.44031774	0.64352347	0.00000000	1.10497315
-1.33902835	1.35334636	0.00000000	6.13603144
-1.23319294	1.35334636	0.00000000	6.72675693
-1.28611065	1.30042866	0.00000000	11.05119041
-1.28611065	1.40626406	0.00000000	9.11223462
45 2657.0 # 737.7 nm, (r3v9r2v5) 45			
0.012483	0.023784	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-37.40636445
0.00000000	-0.70208822	0.00000000	69.33334272
2.11091906	0.04406596	0.00000000	11.04182428
1.32524096	1.15754064	0.00000000	-42.05909230
-0.04178899	0.70146698	0.00000000	73.61124256
-1.16182154	-1.48163476	0.00000000	-22.90130642
-2.37713566	-0.81881509	0.00000000	3.58886472
-2.44031774	0.59060577	0.00000000	3.47108171
-1.28611065	1.35334636	0.00000000	-41.02940640
1.26584879	-1.08237463	0.00000000	9.58831685
1.37168419	-1.08237463	0.00000000	8.23270099
1.31876649	-1.13529233	0.00000000	8.93739844
1.31876649	-1.02945693	0.00000000	10.89701173
-0.05291770	-0.70208822	0.00000000	-16.86346900
0.05291770	-0.70208822	0.00000000	-17.56087822
0.00000000	-0.75500592	0.00000000	-17.72510984
0.00000000	-0.64917052	0.00000000	-17.55537573
2.05800137	0.04406596	0.00000000	-3.26369338
2.16383676	0.04406596	0.00000000	-1.64938504
2.11091906	-0.00885174	0.00000000	-2.89107119
2.11091906	0.09698366	0.00000000	-3.43615773
1.27232327	1.15754064	0.00000000	12.47524330
1.37815866	1.15754064	0.00000000	11.04961717
1.32524096	1.10462294	0.00000000	10.64177451
1.32524096	1.21045834	0.00000000	8.22673987
-0.09470669	0.70146698	0.00000000	-35.25386249
0.01112871	0.70146698	0.00000000	-35.75561907
-0.04178899	0.64854929	0.00000000	-0.33614956
-0.04178899	0.75438469	0.00000000	-2.57293299
-1.21473924	-1.48163476	0.00000000	7.27731884
-1.10890384	-1.48163476	0.00000000	8.07434686
-1.16182154	-1.53455246	0.00000000	3.42128134
-1.16182154	-1.42871706	0.00000000	4.27309076
-2.43005336	-0.81881509	0.00000000	-1.16370057
-2.32421796	-0.81881509	0.00000000	-1.54674390
-2.37713566	-0.87173279	0.00000000	-0.47538030
-2.37713566	-0.76589740	0.00000000	-0.43752731
-2.49323545	0.59060577	0.00000000	-2.73159038
-2.38740004	0.59060577	0.00000000	-3.61189760
-2.44031774	0.53768808	0.00000000	1.42153402

	-2.44031774	0.64352347	0.00000000	1.38121644
	-1.33902835	1.35334636	0.00000000	7.67003930
	-1.23319294	1.35334636	0.00000000	8.40844617
	-1.28611065	1.30042866	0.00000000	13.81398802
	-1.28611065	1.40626406	0.00000000	11.39029327
45	13555.0 # 737.7 nm, (r7r2v5) 45			
	0.172274	-0.04041	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	-0.8485163126	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	11.66408756
	0.00000000	-0.70208822	0.00000000	5.64505819
	2.11091906	0.04406596	0.00000000	4.99705785
	1.32524096	1.15754064	0.00000000	-7.22591387
	-0.04178899	0.70146698	0.00000000	63.46455156
	-1.16182154	-1.48163476	0.00000000	-66.67465523
	-2.37713566	-0.81881509	0.00000000	37.80395669
	-2.44031774	0.59060577	0.00000000	-16.44046706
	-1.28611065	1.35334636	0.00000000	-29.61921318
	1.26584879	-1.08237463	0.00000000	-3.58628067
	1.37168419	-1.08237463	0.00000000	-2.55471567
	1.31876649	-1.13529233	0.00000000	-2.17695618
	1.31876649	-1.02945693	0.00000000	-3.54496819
	-0.05291770	-0.70208822	0.00000000	24.65770911
	0.05291770	-0.70208822	0.00000000	25.34599288
	0.00000000	-0.75500592	0.00000000	-25.92415098
	0.00000000	-0.64917052	0.00000000	-29.67327703
	2.05800137	0.04406596	0.00000000	-3.39687151
	2.16383676	0.04406596	0.00000000	-3.28194648
	2.11091906	-0.00885174	0.00000000	0.42026173
	2.11091906	0.09698366	0.00000000	1.35170848
	1.27232327	1.15754064	0.00000000	-8.97757474
	1.37815866	1.15754064	0.00000000	-7.77565448
	1.32524096	1.10462294	0.00000000	12.90314097
	1.32524096	1.21045834	0.00000000	11.04579951
	-0.09470669	0.70146698	0.00000000	-32.48990752
	0.01112871	0.70146698	0.00000000	-34.21186265
	-0.04178899	0.64854929	0.00000000	1.24421618
	-0.04178899	0.75438469	0.00000000	2.31399318
	-1.21473924	-1.48163476	0.00000000	23.44981009
	-1.10890384	-1.48163476	0.00000000	24.31301574
	-1.16182154	-1.53455246	0.00000000	9.41828982
	-1.16182154	-1.42871706	0.00000000	9.34513133
	-2.43005336	-0.81881509	0.00000000	-9.83266301
	-2.32421796	-0.81881509	0.00000000	-10.44018049
	-2.37713566	-0.87173279	0.00000000	-8.71570643
	-2.37713566	-0.76589740	0.00000000	-8.65240821
	-2.49323545	0.59060577	0.00000000	8.45334251
	-2.38740004	0.59060577	0.00000000	9.99622884
	-2.44031774	0.53768808	0.00000000	-1.99140239
	-2.44031774	0.64352347	0.00000000	-0.05342388
	-1.33902835	1.35334636	0.00000000	3.30123501
	-1.23319294	1.35334636	0.00000000	3.06277868
	-1.28611065	1.30042866	0.00000000	11.80970085
	-1.28611065	1.40626406	0.00000000	11.23313311
45	15636.0 # 639.5 nm, (r8r2v5) 45			
	-0.45281	0.064947	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	-0.9999114666E-01	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-24.72728020
	0.00000000	-0.70208822	0.00000000	81.86116339
	2.11091906	0.04406596	0.00000000	11.30452491
	1.32524096	1.15754064	0.00000000	90.41442167
	-0.04178899	0.70146698	0.00000000	-150.69781373
	-1.16182154	-1.48163476	0.00000000	-16.31372213
	-2.37713566	-0.81881509	0.00000000	28.29941023
	-2.44031774	0.59060577	0.00000000	-27.08328907
	-1.28611065	1.35334636	0.00000000	66.69332086
	1.26584879	-1.08237463	0.00000000	2.99396825
	1.37168419	-1.08237463	0.00000000	3.02421134
	1.31876649	-1.13529233	0.00000000	9.19395063
	1.31876649	-1.02945693	0.00000000	9.64827870
	-0.05291770	-0.70208822	0.00000000	-19.31879662
	0.05291770	-0.70208822	0.00000000	-17.17282888
	0.00000000	-0.75500592	0.00000000	-23.16031903
	0.00000000	-0.64917052	0.00000000	-22.43625103
	2.05800137	0.04406596	0.00000000	3.85315835
	2.16383676	0.04406596	0.00000000	3.66954537
	2.11091906	-0.00885174	0.00000000	-12.03195700
	2.11091906	0.09698366	0.00000000	-6.86310784
	1.27232327	1.15754064	0.00000000	-24.69148419
	1.37815866	1.15754064	0.00000000	-23.76515882
	1.32524096	1.10462294	0.00000000	-22.13265590
	1.32524096	1.21045834	0.00000000	-20.00056537
	-0.09470669	0.70146698	0.00000000	60.40099686
	0.01112871	0.70146698	0.00000000	56.43373445
	-0.04178899	0.64854929	0.00000000	15.89488227
	-0.04178899	0.75438469	0.00000000	18.25021816
	-1.21473924	-1.48163476	0.00000000	0.63328410
	-1.10890384	-1.48163476	0.00000000	1.74684358

-1.16182154	-1.53455246	0.00000000	5.54612427
-1.16182154	-1.42871706	0.00000000	8.77126999
-2.43005336	-0.81881509	0.00000000	-17.30935303
-2.32421796	-0.81881509	0.00000000	-20.21739952
-2.37713566	-0.87173279	0.00000000	4.20335141
-2.37713566	-0.76589740	0.00000000	4.83503678
-2.49323545	0.59060577	0.00000000	2.97814540
-2.38740004	0.59060577	0.00000000	5.94324462
-2.44031774	0.53768808	0.00000000	9.83008116
-2.44031774	0.64352347	0.00000000	8.69588934
-1.33902835	1.35334636	0.00000000	-17.67658474
-1.23319294	1.35334636	0.00000000	-17.86076411
-1.28611065	1.30042866	0.00000000	-17.91881846
-1.28611065	1.40626406	0.00000000	-13.74090647
&TRANSITION 7->...			
0	0.0 # (r2v7r2v6) 45		
	0.00000000	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	0.00000000 # magnet. mom.
45	2657.0 # 737.7 nm, (r3v1r2v6) 45		
	0.019405	0.036974	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	-1.664952771 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -58.14989383
	0.00000000	-0.70208822	0.00000000 107.78183277
	2.11091906	0.04406596	0.00000000 17.16501774
	1.32524096	1.15754064	0.00000000 -65.38277075
	-0.04178899	0.70146698	0.00000000 114.43202252
	-1.16182154	-1.48163476	0.00000000 -35.60112180
	-2.37713566	-0.81881509	0.00000000 5.57905334
	-2.44031774	0.59060577	0.00000000 5.39595430
	-1.28611065	1.35334636	0.00000000 -63.78207722
	1.26584879	-1.08237463	0.00000000 14.90547437
	1.37168419	-1.08237463	0.00000000 12.79810790
	1.31876649	-1.13529233	0.00000000 13.89359212
	1.31876649	-1.02945693	0.00000000 16.93990005
	-0.05291770	-0.70208822	0.00000000 -26.21502908
	0.05291770	-0.70208822	0.00000000 -27.29918341
	0.00000000	-0.75500592	0.00000000 -27.55448894
	0.00000000	-0.64917052	0.00000000 -27.29062954
	2.05800137	0.04406596	0.00000000 -5.07355971
	2.16383676	0.04406596	0.00000000 -2.56404401
	2.11091906	-0.00885174	0.00000000 -4.49430158
	2.11091906	0.09698366	0.00000000 -5.34166339
	1.27232327	1.15754064	0.00000000 19.39333277
	1.37815866	1.15754064	0.00000000 17.17713214
	1.32524096	1.10462294	0.00000000 16.54312219
	1.32524096	1.21045834	0.00000000 12.78884107
	-0.09470669	0.70146698	0.00000000 -54.80373169
	0.01112871	0.70146698	0.00000000 -55.58373510
	-0.04178899	0.64854929	0.00000000 -0.52255977
	-0.04178899	0.75438469	0.00000000 -3.99974129
	-1.21473924	-1.48163476	0.00000000 11.31292292
	-1.10890384	-1.48163476	0.00000000 12.55193921
	-1.16182154	-1.53455246	0.00000000 5.31853735
	-1.16182154	-1.42871706	0.00000000 6.64271383
	-2.43005336	-0.81881509	0.00000000 -1.80902543
	-2.32421796	-0.81881509	0.00000000 -2.40448370
	-2.37713566	-0.87173279	0.00000000 -0.73900029
	-2.37713566	-0.76589740	0.00000000 -0.68015609
	-2.49323545	0.59060577	0.00000000 -4.24638142
	-2.38740004	0.59060577	0.00000000 -5.61485899
	-2.44031774	0.53768808	0.00000000 2.20983925
	-2.44031774	0.64352347	0.00000000 2.14716374
	-1.33902835	1.35334636	0.00000000 11.92342474
	-1.23319294	1.35334636	0.00000000 13.07131177
	-1.28611065	1.30042866	0.00000000 21.47447228
	-1.28611065	1.40626406	0.00000000 17.70672864
45	2657.0 # 737.7 nm, (r3v2r2v6) 45		
	0.018043	0.034379	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	-1.664952771 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -54.06919953
	0.00000000	-0.70208822	0.00000000 100.21819538
	2.11091906	0.04406596	0.00000000 15.96045509
	1.32524096	1.15754064	0.00000000 -60.79450614
	-0.04178899	0.70146698	0.00000000 106.40170515
	-1.16182154	-1.48163476	0.00000000 -33.10279746
	-2.37713566	-0.81881509	0.00000000 5.18754083
	-2.44031774	0.59060577	0.00000000 5.01729084
	-1.28611065	1.35334636	0.00000000 -59.30614198
	1.26584879	-1.08237463	0.00000000 13.85947617
	1.37168419	-1.08237463	0.00000000 11.89999507
	1.31876649	-1.13529233	0.00000000 12.91860320
	1.31876649	-1.02945693	0.00000000 15.75113514
	-0.05291770	-0.70208822	0.00000000 -24.37537792
	0.05291770	-0.70208822	0.00000000 -25.38345124
	0.00000000	-0.75500592	0.00000000 -25.62084059
	0.00000000	-0.64917052	0.00000000 -25.37549764
	2.05800137	0.04406596	0.00000000 -4.71752043

2.16383676	0.04406596	0.00000000	-2.38411110
2.11091906	-0.00885174	0.00000000	-4.17891200
2.11091906	0.09698366	0.00000000	-4.96680982
1.27232327	1.15754064	0.00000000	18.03239713
1.37815866	1.15754064	0.00000000	15.97171936
1.32524096	1.10462294	0.00000000	15.38220133
1.32524096	1.21045834	0.00000000	11.89137854
-0.09470669	0.70146698	0.00000000	-50.95785578
0.01112871	0.70146698	0.00000000	-51.68312211
-0.04178899	0.64854929	0.00000000	-0.48588891
-0.04178899	0.75438469	0.00000000	-3.71905769
-1.21473924	-1.48163476	0.00000000	10.51903359
-1.10890384	-1.48163476	0.00000000	11.67110137
-1.16182154	-1.53455246	0.00000000	4.94530666
-1.16182154	-1.42871706	0.00000000	6.17655847
-2.43005336	-0.81881509	0.00000000	-1.68207627
-2.32421796	-0.81881509	0.00000000	-2.23574801
-2.37713566	-0.87173279	0.00000000	-0.68714062
-2.37713566	-0.76589740	0.00000000	-0.63242583
-2.49323545	0.59060577	0.00000000	-3.94838974
-2.38740004	0.59060577	0.00000000	-5.22083380
-2.44031774	0.53768808	0.00000000	2.05476281
-2.44031774	0.64352347	0.00000000	1.99648558
-1.33902835	1.35334636	0.00000000	11.08669318
-1.23319294	1.35334636	0.00000000	12.15402673
-1.28611065	1.30042866	0.00000000	19.96749177
-1.28611065	1.40626406	0.00000000	16.46415119
45 2657.0 # 737.7 nm, (r3v3r2v6) 45			
0.010894	0.020757	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-32.64555443
0.00000000	-0.70208822	0.00000000	60.50909910
2.11091906	0.04406596	0.00000000	9.63650119
1.32524096	1.15754064	0.00000000	-36.70611691
-0.04178899	0.70146698	0.00000000	64.24253896
-1.16182154	-1.48163476	0.00000000	-19.98659469
-2.37713566	-0.81881509	0.00000000	3.13210012
-2.44031774	0.59060577	0.00000000	3.02930768
-1.28611065	1.35334636	0.00000000	-35.80748195
1.26584879	-1.08237463	0.00000000	8.36798561
1.37168419	-1.08237463	0.00000000	7.18490268
1.31876649	-1.13529233	0.00000000	7.79991137
1.31876649	-1.02945693	0.00000000	9.51011933
-0.05291770	-0.70208822	0.00000000	-14.71720931
0.05291770	-0.70208822	0.00000000	-15.32585735
0.00000000	-0.75500592	0.00000000	-15.46918677
0.00000000	-0.64917052	0.00000000	-15.32105518
2.05800137	0.04406596	0.00000000	-2.84831422
2.16383676	0.04406596	0.00000000	-1.43946330
2.11091906	-0.00885174	0.00000000	-2.52311668
2.11091906	0.09698366	0.00000000	-2.99882857
1.27232327	1.15754064	0.00000000	10.88748506
1.37815866	1.15754064	0.00000000	9.64330226
1.32524096	1.10462294	0.00000000	9.28736684
1.32524096	1.21045834	0.00000000	7.17970025
-0.09470669	0.70146698	0.00000000	-30.76700726
0.01112871	0.70146698	0.00000000	-31.20490391
-0.04178899	0.64854929	0.00000000	-0.29336689
-0.04178899	0.75438469	0.00000000	-2.24546879
-1.21473924	-1.48163476	0.00000000	6.35111462
-1.10890384	-1.48163476	0.00000000	7.04670271
-1.16182154	-1.53455246	0.00000000	2.98584553
-1.16182154	-1.42871706	0.00000000	3.72924285
-2.43005336	-0.81881509	0.00000000	-1.01559322
-2.32421796	-0.81881509	0.00000000	-1.34988559
-2.37713566	-0.87173279	0.00000000	-0.41487735
-2.37713566	-0.76589740	0.00000000	-0.38184201
-2.49323545	0.59060577	0.00000000	-2.38393343
-2.38740004	0.59060577	0.00000000	-3.15220154
-2.44031774	0.53768808	0.00000000	1.24061151
-2.44031774	0.64352347	0.00000000	1.20542526
-1.33902835	1.35334636	0.00000000	6.69385248
-1.23319294	1.35334636	0.00000000	7.33828029
-1.28611065	1.30042866	0.00000000	12.05584409
-1.28611065	1.40626406	0.00000000	9.94061959
45 2657.0 # 737.7 nm, (r3v4r2v6) 45			
0.011575	0.022055	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-34.68590159
0.00000000	-0.70208822	0.00000000	64.29091779
2.11091906	0.04406596	0.00000000	10.23878251
1.32524096	1.15754064	0.00000000	-39.00024922
-0.04178899	0.70146698	0.00000000	68.25769765
-1.16182154	-1.48163476	0.00000000	-21.23575686
-2.37713566	-0.81881509	0.00000000	3.32785638
-2.44031774	0.59060577	0.00000000	3.21863941
-1.28611065	1.35334636	0.00000000	-38.04544957

1.26584879	-1.08237463	0.00000000	8.89098471
1.37168419	-1.08237463	0.00000000	7.63395910
1.31876649	-1.13529233	0.00000000	8.28740583
1.31876649	-1.02945693	0.00000000	10.10450179
-0.05291770	-0.70208822	0.00000000	-15.63703489
0.05291770	-0.70208822	0.00000000	-16.28372344
0.00000000	-0.75500592	0.00000000	-16.43601095
0.00000000	-0.64917052	0.00000000	-16.27862113
2.05800137	0.04406596	0.00000000	-3.02633386
2.16383676	0.04406596	0.00000000	-1.52942976
2.11091906	-0.00885174	0.00000000	-2.68081147
2.11091906	0.09698366	0.00000000	-3.18625535
1.27232327	1.15754064	0.00000000	11.56795288
1.37815866	1.15754064	0.00000000	10.24600865
1.32524096	1.10462294	0.00000000	9.86782727
1.32524096	1.21045834	0.00000000	7.62843152
-0.09470669	0.70146698	0.00000000	-32.68994522
0.01112871	0.70146698	0.00000000	-33.15521041
-0.04178899	0.64854929	0.00000000	-0.31170232
-0.04178899	0.75438469	0.00000000	-2.38581059
-1.21473924	-1.48163476	0.00000000	6.74805929
-1.10890384	-1.48163476	0.00000000	7.48712163
-1.16182154	-1.53455246	0.00000000	3.17246087
-1.16182154	-1.42871706	0.00000000	3.96232053
-2.43005336	-0.81881509	0.00000000	-1.07906780
-2.32421796	-0.81881509	0.00000000	-1.43425344
-2.37713566	-0.87173279	0.00000000	-0.44080719
-2.37713566	-0.76589740	0.00000000	-0.40570714
-2.49323545	0.59060577	0.00000000	-2.53292927
-2.38740004	0.59060577	0.00000000	-3.34921413
-2.44031774	0.53768808	0.00000000	1.31814973
-2.44031774	0.64352347	0.00000000	1.28076434
-1.33902835	1.35334636	0.00000000	7.11221826
-1.23319294	1.35334636	0.00000000	7.79692281
-1.28611065	1.30042866	0.00000000	12.80933434
-1.28611065	1.40626406	0.00000000	10.56190831
45 2657.0 # 737.7 nm, (r3v5r2v6) 45			
0.010213	0.01946	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-30.60520728
0.00000000	-0.70208822	0.00000000	56.72728040
2.11091906	0.04406596	0.00000000	9.03421986
1.32524096	1.15754064	0.00000000	-34.41198461
-0.04178899	0.70146698	0.00000000	60.22738028
-1.16182154	-1.48163476	0.00000000	-18.73743253
-2.37713566	-0.81881509	0.00000000	2.93634387
-2.44031774	0.59060577	0.00000000	2.83997595
-1.28611065	1.35334636	0.00000000	-33.56951433
1.26584879	-1.08237463	0.00000000	7.84498651
1.37168419	-1.08237463	0.00000000	6.73584627
1.31876649	-1.13529233	0.00000000	7.31241691
1.31876649	-1.02945693	0.00000000	8.91573687
-0.05291770	-0.70208822	0.00000000	-13.79738373
0.05291770	-0.70208822	0.00000000	-14.36799127
0.00000000	-0.75500592	0.00000000	-14.50236260
0.00000000	-0.64917052	0.00000000	-14.36348923
2.05800137	0.04406596	0.00000000	-2.67029459
2.16383676	0.04406596	0.00000000	-1.34949685
2.11091906	-0.00885174	0.00000000	-2.36542188
2.11091906	0.09698366	0.00000000	-2.81140178
1.27232327	1.15754064	0.00000000	10.20701725
1.37815866	1.15754064	0.00000000	9.04059586
1.32524096	1.10462294	0.00000000	8.70690641
1.32524096	1.21045834	0.00000000	6.73096898
-0.09470669	0.70146698	0.00000000	-28.84406931
0.01112871	0.70146698	0.00000000	-29.25459742
-0.04178899	0.64854929	0.00000000	-0.27503146
-0.04178899	0.75438469	0.00000000	-2.10512699
-1.21473924	-1.48163476	0.00000000	5.95416996
-1.10890384	-1.48163476	0.00000000	6.60628379
-1.16182154	-1.53455246	0.00000000	2.79923018
-1.16182154	-1.42871706	0.00000000	3.49616517
-2.43005336	-0.81881509	0.00000000	-0.95211865
-2.32421796	-0.81881509	0.00000000	-1.26551774
-2.37713566	-0.87173279	0.00000000	-0.38894752
-2.37713566	-0.76589740	0.00000000	-0.35797689
-2.49323545	0.59060577	0.00000000	-2.23493759
-2.38740004	0.59060577	0.00000000	-2.95518894
-2.44031774	0.53768808	0.00000000	1.16307329
-2.44031774	0.64352347	0.00000000	1.13008618
-1.33902835	1.35334636	0.00000000	6.27548670
-1.23319294	1.35334636	0.00000000	6.87963777
-1.28611065	1.30042866	0.00000000	11.30235383
-1.28611065	1.40626406	0.00000000	9.31933086
45 2657.0 # 737.7 nm, (r3v6r2v6) 45			
0.006128	0.011676	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.

1.31876649	-1.08237463	0.00000000	-18.36312437
0.00000000	-0.70208822	0.00000000	34.03636824
2.11091906	0.04406596	0.00000000	5.42053192
1.32524096	1.15754064	0.00000000	-20.64719076
-0.04178899	0.70146698	0.00000000	36.13642817
-1.16182154	-1.48163476	0.00000000	-11.24245952
-2.37713566	-0.81881509	0.00000000	1.76180632
-2.44031774	0.59060577	0.00000000	1.70398557
-1.28611065	1.35334636	0.00000000	-20.14170860
1.26584879	-1.08237463	0.00000000	4.70699191
1.37168419	-1.08237463	0.00000000	4.04150776
1.31876649	-1.13529233	0.00000000	4.38745014
1.31876649	-1.02945693	0.00000000	5.34944212
-0.05291770	-0.70208822	0.00000000	-8.27843024
0.05291770	-0.70208822	0.00000000	-8.62079476
0.00000000	-0.75500592	0.00000000	-8.70141756
0.00000000	-0.64917052	0.00000000	-8.61809354
2.05800137	0.04406596	0.00000000	-1.60217675
2.16383676	0.04406596	0.00000000	-0.80969811
2.11091906	-0.00885174	0.00000000	-1.41925313
2.11091906	0.09698366	0.00000000	-1.68684107
1.27232327	1.15754064	0.00000000	6.12421035
1.37815866	1.15754064	0.00000000	5.42435752
1.32524096	1.10462294	0.00000000	5.22414385
1.32524096	1.21045834	0.00000000	4.03858139
-0.09470669	0.70146698	0.00000000	-17.30644159
0.01112871	0.70146698	0.00000000	-17.55275845
-0.04178899	0.64854929	0.00000000	-0.16501888
-0.04178899	0.75438469	0.00000000	-1.26307620
-1.21473924	-1.48163476	0.00000000	3.57250197
-1.10890384	-1.48163476	0.00000000	3.96377028
-1.16182154	-1.53455246	0.00000000	1.67953811
-1.16182154	-1.42871706	0.00000000	2.09769910
-2.43005336	-0.81881509	0.00000000	-0.57127119
-2.32421796	-0.81881509	0.00000000	-0.75931064
-2.37713566	-0.87173279	0.00000000	-0.23336851
-2.37713566	-0.76589740	0.00000000	-0.21478613
-2.49323545	0.59060577	0.00000000	-1.34096255
-2.38740004	0.59060577	0.00000000	-1.77311337
-2.44031774	0.53768808	0.00000000	0.69784397
-2.44031774	0.64352347	0.00000000	0.67805171
-1.33902835	1.35334636	0.00000000	3.76529202
-1.23319294	1.35334636	0.00000000	4.12778266
-1.28611065	1.30042866	0.00000000	6.78141230
-1.28611065	1.40626406	0.00000000	5.59159852
45 2657.0 # 737.7 nm, (r3v7r2v6) 45			
0.006468	0.012325	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-19.38329794
0.00000000	-0.70208822	0.00000000	35.92727759
2.11091906	0.04406596	0.00000000	5.72167258
1.32524096	1.15754064	0.00000000	-21.79425692
-0.04178899	0.70146698	0.00000000	38.14400751
-1.16182154	-1.48163476	0.00000000	-11.86704060
-2.37713566	-0.81881509	0.00000000	1.85968445
-2.44031774	0.59060577	0.00000000	1.79865143
-1.28611065	1.35334636	0.00000000	-21.26069241
1.26584879	-1.08237463	0.00000000	4.96849146
1.37168419	-1.08237463	0.00000000	4.26603597
1.31876649	-1.13529233	0.00000000	4.63119737
1.31876649	-1.02945693	0.00000000	5.64663335
-0.05291770	-0.70208822	0.00000000	-8.73834303
0.05291770	-0.70208822	0.00000000	-9.09972780
0.00000000	-0.75500592	0.00000000	-9.18482965
0.00000000	-0.64917052	0.00000000	-9.09687651
2.05800137	0.04406596	0.00000000	-1.69118657
2.16383676	0.04406596	0.00000000	-0.85468134
2.11091906	-0.00885174	0.00000000	-1.49810053
2.11091906	0.09698366	0.00000000	-1.78055446
1.27232327	1.15754064	0.00000000	6.46444426
1.37815866	1.15754064	0.00000000	5.72571071
1.32524096	1.10462294	0.00000000	5.51437406
1.32524096	1.21045834	0.00000000	4.26294702
-0.09470669	0.70146698	0.00000000	-18.26791056
0.01112871	0.70146698	0.00000000	-18.52791170
-0.04178899	0.64854929	0.00000000	-0.17418659
-0.04178899	0.75438469	0.00000000	-1.33324710
-1.21473924	-1.48163476	0.00000000	3.77097431
-1.10890384	-1.48163476	0.00000000	4.18397974
-1.16182154	-1.53455246	0.00000000	1.77284578
-1.16182154	-1.42871706	0.00000000	2.21423794
-2.43005336	-0.81881509	0.00000000	-0.60300848
-2.32421796	-0.81881509	0.00000000	-0.80149457
-2.37713566	-0.87173279	0.00000000	-0.24633343
-2.37713566	-0.76589740	0.00000000	-0.22671870
-2.49323545	0.59060577	0.00000000	-1.41546047
-2.38740004	0.59060577	0.00000000	-1.87161966

-2.44031774	0.53768808	0.00000000	0.73661308
-2.44031774	0.64352347	0.00000000	0.71572125
-1.33902835	1.35334636	0.00000000	3.97447491
-1.23319294	1.35334636	0.00000000	4.35710392
-1.28611065	1.30042866	0.00000000	7.15815743
-1.28611065	1.40626406	0.00000000	5.90224288
45 2657.0 # 737.7 nm, (r3v8r2v6) 45			
0.002723	0.005189	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-8.16138861
0.00000000	-0.70208822	0.00000000	15.12727477
2.11091906	0.04406596	0.00000000	2.40912530
1.32524096	1.15754064	0.00000000	-9.17652923
-0.04178899	0.70146698	0.00000000	16.06063474
-1.16182154	-1.48163476	0.00000000	-4.99664867
-2.37713566	-0.81881509	0.00000000	0.78302503
-2.44031774	0.59060577	0.00000000	0.75732692
-1.28611065	1.35334636	0.00000000	-8.95187049
1.26584879	-1.08237463	0.00000000	2.09199640
1.37168419	-1.08237463	0.00000000	1.79622567
1.31876649	-1.13529233	0.00000000	1.94997784
1.31876649	-1.02945693	0.00000000	2.37752983
-0.05291770	-0.70208822	0.00000000	-3.67930233
0.05291770	-0.70208822	0.00000000	-3.83146434
0.00000000	-0.75500592	0.00000000	-3.86729669
0.00000000	-0.64917052	0.00000000	-3.83026380
2.05800137	0.04406596	0.00000000	-0.71207856
2.16383676	0.04406596	0.00000000	-0.35986583
2.11091906	-0.00885174	0.00000000	-0.63077917
2.11091906	0.09698366	0.00000000	-0.74970714
1.27232327	1.15754064	0.00000000	2.72187127
1.37815866	1.15754064	0.00000000	2.41082556
1.32524096	1.10462294	0.00000000	2.32184171
1.32524096	1.21045834	0.00000000	1.79492506
-0.09470669	0.70146698	0.00000000	-7.69175182
0.01112871	0.70146698	0.00000000	-7.80122598
-0.04178899	0.64854929	0.00000000	-0.07334172
-0.04178899	0.75438469	0.00000000	-0.56136720
-1.21473924	-1.48163476	0.00000000	1.58777866
-1.10890384	-1.48163476	0.00000000	1.76167568
-1.16182154	-1.53455246	0.00000000	0.74646138
-1.16182154	-1.42871706	0.00000000	0.93231071
-2.43005336	-0.81881509	0.00000000	-0.25389831
-2.32421796	-0.81881509	0.00000000	-0.33747140
-2.37713566	-0.87173279	0.00000000	-0.10371934
-2.37713566	-0.76589740	0.00000000	-0.09546050
-2.49323545	0.59060577	0.00000000	-0.59598336
-2.38740004	0.59060577	0.00000000	-0.78805038
-2.44031774	0.53768808	0.00000000	0.31015288
-2.44031774	0.64352347	0.00000000	0.30135631
-1.33902835	1.35334636	0.00000000	1.67346312
-1.23319294	1.35334636	0.00000000	1.83457007
-1.28611065	1.30042866	0.00000000	3.01396102
-1.28611065	1.40626406	0.00000000	2.48515490
45 2657.0 # 737.7 nm, (r3v9r2v6) 45			
0.003404	0.006487	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-10.20173576
0.00000000	-0.70208822	0.00000000	18.90909347
2.11091906	0.04406596	0.00000000	3.01140662
1.32524096	1.15754064	0.00000000	-11.47066154
-0.04178899	0.70146698	0.00000000	20.07579343
-1.16182154	-1.48163476	0.00000000	-6.24581084
-2.37713566	-0.81881509	0.00000000	0.97878129
-2.44031774	0.59060577	0.00000000	0.94665865
-1.28611065	1.35334636	0.00000000	-11.18983811
1.26584879	-1.08237463	0.00000000	2.61499550
1.37168419	-1.08237463	0.00000000	2.24528209
1.31876649	-1.13529233	0.00000000	2.43747230
1.31876649	-1.02945693	0.00000000	2.97191229
-0.05291770	-0.70208822	0.00000000	-4.59912791
0.05291770	-0.70208822	0.00000000	-4.78933042
0.00000000	-0.75500592	0.00000000	-4.83412087
0.00000000	-0.64917052	0.00000000	-4.78782974
2.05800137	0.04406596	0.00000000	-0.89009820
2.16383676	0.04406596	0.00000000	-0.44983228
2.11091906	-0.00885174	0.00000000	-0.78847396
2.11091906	0.09698366	0.00000000	-0.93713393
1.27232327	1.15754064	0.00000000	3.40233908
1.37815866	1.15754064	0.00000000	3.01353195
1.32524096	1.10462294	0.00000000	2.90230214
1.32524096	1.21045834	0.00000000	2.24365633
-0.09470669	0.70146698	0.00000000	-9.61468977
0.01112871	0.70146698	0.00000000	-9.75153247
-0.04178899	0.64854929	0.00000000	-0.09167715
-0.04178899	0.75438469	0.00000000	-0.70170900
-1.21473924	-1.48163476	0.00000000	1.98472332

-1.10890384	-1.48163476	0.00000000	2.20209460
-1.16182154	-1.53455246	0.00000000	0.93307673
-1.16182154	-1.42871706	0.00000000	1.16538839
-2.43005336	-0.81881509	0.00000000	-0.31737288
-2.32421796	-0.81881509	0.00000000	-0.42183925
-2.37713566	-0.87173279	0.00000000	-0.12964917
-2.37713566	-0.76589740	0.00000000	-0.11932563
-2.49323545	0.59060577	0.00000000	-0.74497920
-2.38740004	0.59060577	0.00000000	-0.98506298
-2.44031774	0.53768808	0.00000000	0.38769110
-2.44031774	0.64352347	0.00000000	0.37669539
-1.33902835	1.35334636	0.00000000	2.09182890
-1.23319294	1.35334636	0.00000000	2.29321259
-1.28611065	1.30042866	0.00000000	3.76745128
-1.28611065	1.40626406	0.00000000	3.10644362
45 13555.0 # 737.7 nm, (r7r2v6) 45			
0.046984	-0.01102	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.8485163126	# magnet. mom.
1.31876649	-1.08237463	0.00000000	3.18111479
0.00000000	-0.70208822	0.00000000	1.53956132
2.11091906	0.04406596	0.00000000	1.36283396
1.32524096	1.15754064	0.00000000	-1.97070378
-0.04178899	0.70146698	0.00000000	17.30851406
-1.16182154	-1.48163476	0.00000000	-18.18399688
-2.37713566	-0.81881509	0.00000000	10.31017001
-2.44031774	0.59060577	0.00000000	-4.48376374
-1.28611065	1.35334636	0.00000000	-8.07796723
1.26584879	-1.08237463	0.00000000	-0.97807655
1.37168419	-1.08237463	0.00000000	-0.69674064
1.31876649	-1.13529233	0.00000000	-0.59371532
1.31876649	-1.02945693	0.00000000	-0.96680951
-0.05291770	-0.70208822	0.00000000	6.72482976
0.05291770	-0.70208822	0.00000000	6.91254351
0.00000000	-0.75500592	0.00000000	-7.07022299
0.00000000	-0.64917052	0.00000000	-8.09271192
2.05800137	0.04406596	0.00000000	-0.92641950
2.16383676	0.04406596	0.00000000	-0.89507631
2.11091906	-0.00885174	0.00000000	0.11461684
2.11091906	0.09698366	0.00000000	0.36864777
1.27232327	1.15754064	0.00000000	-2.44842947
1.37815866	1.15754064	0.00000000	-2.12063304
1.32524096	1.10462294	0.00000000	3.51903845
1.32524096	1.21045834	0.00000000	3.01249078
-0.09470669	0.70146698	0.00000000	-8.86088387
0.01112871	0.70146698	0.00000000	-9.33050800
-0.04178899	0.64854929	0.00000000	0.33933168
-0.04178899	0.75438469	0.00000000	0.63108905
-1.21473924	-1.48163476	0.00000000	6.39540275
-1.10890384	-1.48163476	0.00000000	6.63082248
-1.16182154	-1.53455246	0.00000000	2.56862450
-1.16182154	-1.42871706	0.00000000	2.54867218
-2.43005336	-0.81881509	0.00000000	-2.68163537
-2.32421796	-0.81881509	0.00000000	-2.84732195
-2.37713566	-0.87173279	0.00000000	-2.37701085
-2.37713566	-0.76589740	0.00000000	-2.35974769
-2.49323545	0.59060577	0.00000000	2.30545705
-2.38740004	0.59060577	0.00000000	2.72624423
-2.44031774	0.53768808	0.00000000	-0.54310974
-2.44031774	0.64352347	0.00000000	-0.01457015
-1.33902835	1.35334636	0.00000000	0.90033682
-1.23319294	1.35334636	0.00000000	0.83530328
-1.28611065	1.30042866	0.00000000	3.22082750
-1.28611065	1.40626406	0.00000000	3.06358176
45 15636.0 # 639.5 nm, (r8r2v6) 45			
-0.12349	0.017713	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.9999114666E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-6.74380369
0.00000000	-0.70208822	0.00000000	22.32577183
2.11091906	0.04406596	0.00000000	3.08305225
1.32524096	1.15754064	0.00000000	24.65847864
-0.04178899	0.70146698	0.00000000	-41.09940375
-1.16182154	-1.48163476	0.00000000	-4.44919694
-2.37713566	-0.81881509	0.00000000	7.71802097
-2.44031774	0.59060577	0.00000000	-7.38635156
-1.28611065	1.35334636	0.00000000	18.18908751
1.26584879	-1.08237463	0.00000000	0.81653680
1.37168419	-1.08237463	0.00000000	0.82478491
1.31876649	-1.13529233	0.00000000	2.50744108
1.31876649	-1.02945693	0.00000000	2.63134874
-0.05291770	-0.70208822	0.00000000	-5.26876272
0.05291770	-0.70208822	0.00000000	-4.68349878
0.00000000	-0.75500592	0.00000000	-6.31645064
0.00000000	-0.64917052	0.00000000	-6.11897755
2.05800137	0.04406596	0.00000000	1.05086137
2.16383676	0.04406596	0.00000000	1.00078510
2.11091906	-0.00885174	0.00000000	-3.28144282
2.11091906	0.09698366	0.00000000	-1.87175668

1.27232327	1.15754064	0.00000000	-6.73404114
1.37815866	1.15754064	0.00000000	-6.48140695
1.32524096	1.10462294	0.00000000	-6.03617888
1.32524096	1.21045834	0.00000000	-5.45469965
-0.09470669	0.70146698	0.00000000	16.47299914
0.01112871	0.70146698	0.00000000	15.39101849
-0.04178899	0.64854929	0.00000000	4.33496789
-0.04178899	0.75438469	0.00000000	4.97733222
-1.21473924	-1.48163476	0.00000000	0.17271385
-1.10890384	-1.48163476	0.00000000	0.47641189
-1.16182154	-1.53455246	0.00000000	1.51257935
-1.16182154	-1.42871706	0.00000000	2.39216454
-2.43005336	-0.81881509	0.00000000	-4.72073264
-2.32421796	-0.81881509	0.00000000	-5.51383623
-2.37713566	-0.87173279	0.00000000	1.14636857
-2.37713566	-0.76589740	0.00000000	1.31864639
-2.49323545	0.59060577	0.00000000	0.81222147
-2.38740004	0.59060577	0.00000000	1.62088490
-2.44031774	0.53768808	0.00000000	2.68093123
-2.44031774	0.64352347	0.00000000	2.37160618
-1.33902835	1.35334636	0.00000000	-4.82088675
-1.23319294	1.35334636	0.00000000	-4.87111749
-1.28611065	1.30042866	0.00000000	-4.88695049
-1.28611065	1.40626406	0.00000000	-3.74751995

&TRANSITION 8->...

45	2657.0	# 737.7 nm, (r3v1r2v7)	45
	0.0036654	0.06984	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	-1.664952771 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -109.83868835
	0.00000000	-0.70208822	0.00000000 203.58790634
	2.11091906	0.04406596	0.00000000 32.42281129
	1.32524096	1.15754064	0.00000000 -123.50078920
	-0.04178899	0.70146698	0.00000000 216.14937588
	-1.16182154	-1.48163476	0.00000000 -67.24656340
	-2.37713566	-0.81881509	0.00000000 10.53821187
	-2.44031774	0.59060577	0.00000000 10.19235812
	-1.28611065	1.35334636	0.00000000 -120.47725697
	1.26584879	-1.08237463	0.00000000 28.15478492
	1.37168419	-1.08237463	0.00000000 24.17420382
	1.31876649	-1.13529233	0.00000000 26.24345179
	1.31876649	-1.02945693	0.00000000 31.99758899
	-0.05291770	-0.70208822	0.00000000 -49.51727716
	0.05291770	-0.70208822	0.00000000 -51.56512422
	0.00000000	-0.75500592	0.00000000 -52.04736800
	0.00000000	-0.64917052	0.00000000 -51.54896691
	2.05800137	0.04406596	0.00000000 -9.58339057
	2.16383676	0.04406596	0.00000000 -4.84319424
	2.11091906	-0.00885174	0.00000000 -8.48923632
	2.11091906	0.09698366	0.00000000 -10.08980862
	1.27232327	1.15754064	0.00000000 36.63185078
	1.37815866	1.15754064	0.00000000 32.44569405
	1.32524096	1.10462294	0.00000000 31.24811969
	1.32524096	1.21045834	0.00000000 24.15669980
	-0.09470669	0.70146698	0.00000000 -103.51815985
	0.01112871	0.70146698	0.00000000 -104.99149963
	-0.04178899	0.64854929	0.00000000 -0.98705735
	-0.04178899	0.75438469	0.00000000 -7.55506687
	-1.21473924	-1.48163476	0.00000000 21.36885440
	-1.10890384	-1.48163476	0.00000000 23.70921850
	-1.16182154	-1.53455246	0.00000000 10.04612610
	-1.16182154	-1.42871706	0.00000000 12.54734834
	-2.43005336	-0.81881509	0.00000000 -3.41704803
	-2.32421796	-0.81881509	0.00000000 -4.54180255
	-2.37713566	-0.87173279	0.00000000 -1.39588943
	-2.37713566	-0.76589740	0.00000000 -1.28473927
	-2.49323545	0.59060577	0.00000000 -8.02094267
	-2.38740004	0.59060577	0.00000000 -10.60584476
	-2.44031774	0.53768808	0.00000000 4.17414081
	-2.44031774	0.64352347	0.00000000 4.05575373
	-1.33902835	1.35334636	0.00000000 22.52202450
	-1.23319294	1.35334636	0.00000000 24.69025556
	-1.28611065	1.30042866	0.00000000 40.56289208
	-1.28611065	1.40626406	0.00000000 33.44604298

45	2657.0	# 737.7 nm, (r3v2r2v7)	45
	0.034081	0.064939	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	-1.664952771 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -102.13071022
	0.00000000	-0.70208822	0.00000000 189.30103572
	2.11091906	0.04406596	0.00000000 30.14752629
	1.32524096	1.15754064	0.00000000 -114.83406715
	-0.04178899	0.70146698	0.00000000 200.98099862
	-1.16182154	-1.48163476	0.00000000 -62.52750632
	-2.37713566	-0.81881509	0.00000000 9.79868823
	-2.44031774	0.59060577	0.00000000 9.47710492
	-1.28611065	1.35334636	0.00000000 -112.02271262
	1.26584879	-1.08237463	0.00000000 26.17901054
	1.37168419	-1.08237463	0.00000000 22.47776846

1.31876649	-1.13529233	0.00000000	24.40180605
1.31876649	-1.02945693	0.00000000	29.75214415
-0.05291770	-0.70208822	0.00000000	-46.04238052
0.05291770	-0.70208822	0.00000000	-47.94651901
0.00000000	-0.75500592	0.00000000	-48.39492112
0.00000000	-0.64917052	0.00000000	-47.93149555
2.05800137	0.04406596	0.00000000	-8.91087193
2.16383676	0.04406596	0.00000000	-4.50332096
2.11091906	-0.00885174	0.00000000	-7.89350044
2.11091906	0.09698366	0.00000000	-9.38175187
1.27232327	1.15754064	0.00000000	34.06119459
1.37815866	1.15754064	0.00000000	30.16880324
1.32524096	1.10462294	0.00000000	29.05526918
1.32524096	1.21045834	0.00000000	22.46149280
-0.09470669	0.70146698	0.00000000	-96.25372758
0.01112871	0.70146698	0.00000000	-97.62367509
-0.04178899	0.64854929	0.00000000	-0.91779017
-0.04178899	0.75438469	0.00000000	-7.02488674
-1.21473924	-1.48163476	0.00000000	19.86928567
-1.10890384	-1.48163476	0.00000000	22.04541370
-1.16182154	-1.53455246	0.00000000	9.34113480
-1.16182154	-1.42871706	0.00000000	11.66683266
-2.43005336	-0.81881509	0.00000000	-3.17725518
-2.32421796	-0.81881509	0.00000000	-4.22307957
-2.37713566	-0.87173279	0.00000000	-1.29793227
-2.37713566	-0.76589740	0.00000000	-1.19458213
-2.49323545	0.59060577	0.00000000	-7.45806950
-2.38740004	0.59060577	0.00000000	-9.86157495
-2.44031774	0.53768808	0.00000000	3.88121864
-2.44031774	0.64352347	0.00000000	3.77113944
-1.33902835	1.35334636	0.00000000	20.94153155
-1.23319294	1.35334636	0.00000000	22.95760604
-1.28611065	1.30042866	0.00000000	37.71637334
-1.28611065	1.40626406	0.00000000	31.09895224
45 2657.0 # 737.7 nm, (r3v3r2v7) 45			
0.020578	0.039208	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-61.66382504
0.00000000	-0.70208822	0.00000000	114.29496496
2.11091906	0.04406596	0.00000000	18.20228002
1.32524096	1.15754064	0.00000000	-69.33377639
-0.04178899	0.70146698	0.00000000	121.34701804
-1.16182154	-1.48163476	0.00000000	-37.75245664
-2.37713566	-0.81881509	0.00000000	5.91618912
-2.44031774	0.59060577	0.00000000	5.72202561
-1.28611065	1.35334636	0.00000000	-67.63635479
1.26584879	-1.08237463	0.00000000	15.80619504
1.37168419	-1.08237463	0.00000000	13.57148285
1.31876649	-1.13529233	0.00000000	14.73316592
1.31876649	-1.02945693	0.00000000	17.96355873
-0.05291770	-0.70208822	0.00000000	-27.79917314
0.05291770	-0.70208822	0.00000000	-28.94884166
0.00000000	-0.75500592	0.00000000	-29.21957502
0.00000000	-0.64917052	0.00000000	-28.93977090
2.05800137	0.04406596	0.00000000	-5.38014909
2.16383676	0.04406596	0.00000000	-2.71898624
2.11091906	-0.00885174	0.00000000	-4.76588706
2.11091906	0.09698366	0.00000000	-5.66445396
1.27232327	1.15754064	0.00000000	20.56524956
1.37815866	1.15754064	0.00000000	18.21512648
1.32524096	1.10462294	0.00000000	17.54280403
1.32524096	1.21045834	0.00000000	13.56165603
-0.09470669	0.70146698	0.00000000	-58.11545816
0.01112871	0.70146698	0.00000000	-58.94259628
-0.04178899	0.64854929	0.00000000	-0.55413746
-0.04178899	0.75438469	0.00000000	-4.24144105
-1.21473924	-1.48163476	0.00000000	11.99654984
-1.10890384	-1.48163476	0.00000000	13.31043846
-1.16182154	-1.53455246	0.00000000	5.63993044
-1.16182154	-1.42871706	0.00000000	7.04412538
-2.43005336	-0.81881509	0.00000000	-1.91834275
-2.32421796	-0.81881509	0.00000000	-2.54978389
-2.37713566	-0.87173279	0.00000000	-0.78365722
-2.37713566	-0.76589740	0.00000000	-0.72125714
-2.49323545	0.59060577	0.00000000	-4.50298536
-2.38740004	0.59060577	0.00000000	-5.95415846
-2.44031774	0.53768808	0.00000000	2.34337729
-2.44031774	0.64352347	0.00000000	2.27691438
-1.33902835	1.35334636	0.00000000	12.64394358
-1.23319294	1.35334636	0.00000000	13.86119610
-1.28611065	1.30042866	0.00000000	22.77214994
-1.28611065	1.40626406	0.00000000	18.77672588
45 2657.0 # 737.7 nm, (r3v4r2v7) 45			
0.021864	0.041659	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-65.51781411
0.00000000	-0.70208822	0.00000000	121.43840027

2.11091906	0.04406596	0.00000000	19.33992253
1.32524096	1.15754064	0.00000000	-73.66713742
-0.04178899	0.70146698	0.00000000	128.93120666
-1.16182154	-1.48163476	0.00000000	-40.11198518
-2.37713566	-0.81881509	0.00000000	6.28595094
-2.44031774	0.59060577	0.00000000	6.07965221
-1.28611065	1.35334636	0.00000000	-71.86362697
1.26584879	-1.08237463	0.00000000	16.79408223
1.37168419	-1.08237463	0.00000000	14.41970052
1.31876649	-1.13529233	0.00000000	15.65398879
1.31876649	-1.02945693	0.00000000	19.08628115
-0.05291770	-0.70208822	0.00000000	-29.53662146
0.05291770	-0.70208822	0.00000000	-30.75814427
0.00000000	-0.75500592	0.00000000	-31.04579846
0.00000000	-0.64917052	0.00000000	-30.74850658
2.05800137	0.04406596	0.00000000	-5.71640841
2.16383676	0.04406596	0.00000000	-2.88892288
2.11091906	-0.00885174	0.00000000	-5.06375500
2.11091906	0.09698366	0.00000000	-6.01848233
1.27232327	1.15754064	0.00000000	21.85057766
1.37815866	1.15754064	0.00000000	19.35357189
1.32524096	1.10462294	0.00000000	18.63922929
1.32524096	1.21045834	0.00000000	14.40925953
-0.09470669	0.70146698	0.00000000	-61.74767430
0.01112871	0.70146698	0.00000000	-62.62650855
-0.04178899	0.64854929	0.00000000	-0.58877105
-0.04178899	0.75438469	0.00000000	-4.50653112
-1.21473924	-1.48163476	0.00000000	12.74633421
-1.10890384	-1.48163476	0.00000000	14.14234086
-1.16182154	-1.53455246	0.00000000	5.99242610
-1.16182154	-1.42871706	0.00000000	7.48438322
-2.43005336	-0.81881509	0.00000000	-2.03823918
-2.32421796	-0.81881509	0.00000000	-2.70914538
-2.37713566	-0.87173279	0.00000000	-0.83263580
-2.37713566	-0.76589740	0.00000000	-0.76633571
-2.49323545	0.59060577	0.00000000	-4.78442195
-2.38740004	0.59060577	0.00000000	-6.32629336
-2.44031774	0.53768808	0.00000000	2.48983838
-2.44031774	0.64352347	0.00000000	2.41922153
-1.33902835	1.35334636	0.00000000	13.43419005
-1.23319294	1.35334636	0.00000000	14.72752086
-1.28611065	1.30042866	0.00000000	24.19540931
-1.28611065	1.40626406	0.00000000	19.95027125
45 2657.0 # 737.7 nm, (r3v5r2v7) 45			
0.019291	0.036758	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-57.80983598
0.00000000	-0.70208822	0.00000000	107.15152965
2.11091906	0.04406596	0.00000000	17.06463752
1.32524096	1.15754064	0.00000000	-65.00041537
-0.04178899	0.70146698	0.00000000	113.76282941
-1.16182154	-1.48163476	0.00000000	-35.39292810
-2.37713566	-0.81881509	0.00000000	5.54642730
-2.44031774	0.59060577	0.00000000	5.36439901
-1.28611065	1.35334636	0.00000000	-63.40908262
1.26584879	-1.08237463	0.00000000	14.81830785
1.37168419	-1.08237463	0.00000000	12.72326517
1.31876649	-1.13529233	0.00000000	13.81234305
1.31876649	-1.02945693	0.00000000	16.84083631
-0.05291770	-0.70208822	0.00000000	-26.06172482
0.05291770	-0.70208822	0.00000000	-27.13953906
0.00000000	-0.75500592	0.00000000	-27.39335158
0.00000000	-0.64917052	0.00000000	-27.13103522
2.05800137	0.04406596	0.00000000	-5.04388977
2.16383676	0.04406596	0.00000000	-2.54904960
2.11091906	-0.00885174	0.00000000	-4.46801911
2.11091906	0.09698366	0.00000000	-5.31042559
1.27232327	1.15754064	0.00000000	19.27992146
1.37815866	1.15754064	0.00000000	17.07668108
1.32524096	1.10462294	0.00000000	16.44637878
1.32524096	1.21045834	0.00000000	12.71405253
-0.09470669	0.70146698	0.00000000	-54.48324203
0.01112871	0.70146698	0.00000000	-55.25868401
-0.04178899	0.64854929	0.00000000	-0.51950387
-0.04178899	0.75438469	0.00000000	-3.97635099
-1.21473924	-1.48163476	0.00000000	11.24676548
-1.10890384	-1.48163476	0.00000000	12.47853606
-1.16182154	-1.53455246	0.00000000	5.28743479
-1.16182154	-1.42871706	0.00000000	6.60386755
-2.43005336	-0.81881509	0.00000000	-1.79844633
-2.32421796	-0.81881509	0.00000000	-2.39042240
-2.37713566	-0.87173279	0.00000000	-0.73467865
-2.37713566	-0.76589740	0.00000000	-0.67617856
-2.49323545	0.59060577	0.00000000	-4.22154878
-2.38740004	0.59060577	0.00000000	-5.58202356
-2.44031774	0.53768808	0.00000000	2.19691621
-2.44031774	0.64352347	0.00000000	2.13460723

-1.33902835	1.35334636	0.00000000	11.85369711
-1.23319294	1.35334636	0.00000000	12.99487135
-1.28611065	1.30042866	0.00000000	21.34889057
-1.28611065	1.40626406	0.00000000	17.60318052
45 2657.0 # 737.7 nm, (r3v6r2v7) 45			
0.011575	0.022055	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-34.68590159
0.00000000	-0.70208822	0.00000000	64.29091779
2.11091906	0.04406596	0.00000000	10.23878251
1.32524096	1.15754064	0.00000000	-39.00024922
-0.04178899	0.70146698	0.00000000	68.25769765
-1.16182154	-1.48163476	0.00000000	-21.23575686
-2.37713566	-0.81881509	0.00000000	3.32785638
-2.44031774	0.59060577	0.00000000	3.21863941
-1.28611065	1.35334636	0.00000000	-38.04544957
1.26584879	-1.08237463	0.00000000	8.89098471
1.37168419	-1.08237463	0.00000000	7.63395910
1.31876649	-1.13529233	0.00000000	8.28740583
1.31876649	-1.02945693	0.00000000	10.10450179
-0.05291770	-0.70208822	0.00000000	-15.63703489
0.05291770	-0.70208822	0.00000000	-16.28372344
0.00000000	-0.75500592	0.00000000	-16.43601095
0.00000000	-0.64917052	0.00000000	-16.27862113
2.05800137	0.04406596	0.00000000	-3.02633386
2.16383676	0.04406596	0.00000000	-1.52942976
2.11091906	-0.00885174	0.00000000	-2.68081147
2.11091906	0.09698366	0.00000000	-3.18625535
1.27232327	1.15754064	0.00000000	11.56795288
1.37815866	1.15754064	0.00000000	10.24600865
1.32524096	1.10462294	0.00000000	9.86782727
1.32524096	1.21045834	0.00000000	7.62843152
-0.09470669	0.70146698	0.00000000	-32.68994522
0.01112871	0.70146698	0.00000000	-33.15521041
-0.04178899	0.64854929	0.00000000	-0.31170232
-0.04178899	0.75438469	0.00000000	-2.38581059
-1.21473924	-1.48163476	0.00000000	6.74805929
-1.10890384	-1.48163476	0.00000000	7.48712163
-1.16182154	-1.53455246	0.00000000	3.17246087
-1.16182154	-1.42871706	0.00000000	3.96232053
-2.43005336	-0.81881509	0.00000000	-1.07906780
-2.32421796	-0.81881509	0.00000000	-1.43425344
-2.37713566	-0.87173279	0.00000000	-0.44080719
-2.37713566	-0.76589740	0.00000000	-0.40570714
-2.49323545	0.59060577	0.00000000	-2.53292927
-2.38740004	0.59060577	0.00000000	-3.34921413
-2.44031774	0.53768808	0.00000000	1.31814973
-2.44031774	0.64352347	0.00000000	1.28076434
-1.33902835	1.35334636	0.00000000	7.11221826
-1.23319294	1.35334636	0.00000000	7.79692281
-1.28611065	1.30042866	0.00000000	12.80933434
-1.28611065	1.40626406	0.00000000	10.56190831
45 2657.0 # 737.7 nm, (r3v7r2v7) 45			
0.012218	0.02328	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-36.61289612
0.00000000	-0.70208822	0.00000000	67.86263545
2.11091906	0.04406596	0.00000000	10.80760376
1.32524096	1.15754064	0.00000000	-41.16692973
-0.04178899	0.70146698	0.00000000	72.04979196
-1.16182154	-1.48163476	0.00000000	-22.41552113
-2.37713566	-0.81881509	0.00000000	3.51273729
-2.44031774	0.59060577	0.00000000	3.39745271
-1.28611065	1.35334636	0.00000000	-40.15908566
1.26584879	-1.08237463	0.00000000	9.38492831
1.37168419	-1.08237463	0.00000000	8.05806794
1.31876649	-1.13529233	0.00000000	8.74781726
1.31876649	-1.02945693	0.00000000	10.66586300
-0.05291770	-0.70208822	0.00000000	-16.50575905
0.05291770	-0.70208822	0.00000000	-17.18837474
0.00000000	-0.75500592	0.00000000	-17.34912267
0.00000000	-0.64917052	0.00000000	-17.18298897
2.05800137	0.04406596	0.00000000	-3.19446352
2.16383676	0.04406596	0.00000000	-1.61439808
2.11091906	-0.00885174	0.00000000	-2.82974544
2.11091906	0.09698366	0.00000000	-3.36326954
1.27232327	1.15754064	0.00000000	12.21061693
1.37815866	1.15754064	0.00000000	10.81523135
1.32524096	1.10462294	0.00000000	10.41603990
1.32524096	1.21045834	0.00000000	8.05223327
-0.09470669	0.70146698	0.00000000	-34.50605328
0.01112871	0.70146698	0.00000000	-34.99716654
-0.04178899	0.64854929	0.00000000	-0.32901912
-0.04178899	0.75438469	0.00000000	-2.51835562
-1.21473924	-1.48163476	0.00000000	7.12295147
-1.10890384	-1.48163476	0.00000000	7.90307283
-1.16182154	-1.53455246	0.00000000	3.34870870

-1.16182154	-1.42871706	0.00000000	4.18244945
-2.43005336	-0.81881509	0.00000000	-1.13901601
-2.32421796	-0.81881509	0.00000000	-1.51393418
-2.37713566	-0.87173279	0.00000000	-0.46529648
-2.37713566	-0.76589740	0.00000000	-0.42824642
-2.49323545	0.59060577	0.00000000	-2.67364756
-2.38740004	0.59060577	0.00000000	-3.53528159
-2.44031774	0.53768808	0.00000000	1.39138027
-2.44031774	0.64352347	0.00000000	1.35191791
-1.33902835	1.35334636	0.00000000	7.50734150
-1.23319294	1.35334636	0.00000000	8.23008519
-1.28611065	1.30042866	0.00000000	13.52096403
-1.28611065	1.40626406	0.00000000	11.14868099
45 2657.0 # 737.7 nm, (r3v8r2v7) 45			
0.005144	0.009802	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-15.41595626
0.00000000	-0.70208822	0.00000000	28.57374124
2.11091906	0.04406596	0.00000000	4.55057001
1.32524096	1.15754064	0.00000000	-17.33344410
-0.04178899	0.70146698	0.00000000	30.33675451
-1.16182154	-1.48163476	0.00000000	-9.43811416
-2.37713566	-0.81881509	0.00000000	1.47904728
-2.44031774	0.59060577	0.00000000	1.43050640
-1.28611065	1.35334636	0.00000000	-16.90908870
1.26584879	-1.08237463	0.00000000	3.95154876
1.37168419	-1.08237463	0.00000000	3.39287071
1.31876649	-1.13529233	0.00000000	3.68329148
1.31876649	-1.02945693	0.00000000	4.49088968
-0.05291770	-0.70208822	0.00000000	-6.94979329
0.05291770	-0.70208822	0.00000000	-7.23721042
0.00000000	-0.75500592	0.00000000	-7.30489375
0.00000000	-0.64917052	0.00000000	-7.23494272
2.05800137	0.04406596	0.00000000	-1.34503727
2.16383676	0.04406596	0.00000000	-0.67974656
2.11091906	-0.00885174	0.00000000	-1.19147176
2.11091906	0.09698366	0.00000000	-1.41611349
1.27232327	1.15754064	0.00000000	5.14131239
1.37815866	1.15754064	0.00000000	4.55378162
1.32524096	1.10462294	0.00000000	4.38570101
1.32524096	1.21045834	0.00000000	3.39041401
-0.09470669	0.70146698	0.00000000	-14.52886454
0.01112871	0.70146698	0.00000000	-14.73564907
-0.04178899	0.64854929	0.00000000	-0.13853436
-0.04178899	0.75438469	0.00000000	-1.06036026
-1.21473924	-1.48163476	0.00000000	2.99913746
-1.10890384	-1.48163476	0.00000000	3.32760961
-1.16182154	-1.53455246	0.00000000	1.40998261
-1.16182154	-1.42871706	0.00000000	1.76103135
-2.43005336	-0.81881509	0.00000000	-0.47958569
-2.32421796	-0.81881509	0.00000000	-0.63744597
-2.37713566	-0.87173279	0.00000000	-0.19591431
-2.37713566	-0.76589740	0.00000000	-0.18031428
-2.49323545	0.59060577	0.00000000	-1.12574634
-2.38740004	0.59060577	0.00000000	-1.48853962
-2.44031774	0.53768808	0.00000000	0.58584432
-2.44031774	0.64352347	0.00000000	0.56922859
-1.33902835	1.35334636	0.00000000	3.16098589
-1.23319294	1.35334636	0.00000000	3.46529903
-1.28611065	1.30042866	0.00000000	5.69303749
-1.28611065	1.40626406	0.00000000	4.69418147
45 2657.0 # 737.7 nm, (r3v9r2v7) 45			
0.00643	0.012253	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-1.664952771	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-19.26994533
0.00000000	-0.70208822	0.00000000	35.71717655
2.11091906	0.04406596	0.00000000	5.68821251
1.32524096	1.15754064	0.00000000	-21.66680512
-0.04178899	0.70146698	0.00000000	37.92094314
-1.16182154	-1.48163476	0.00000000	-11.79764270
-2.37713566	-0.81881509	0.00000000	1.84880910
-2.44031774	0.59060577	0.00000000	1.78813300
-1.28611065	1.35334636	0.00000000	-21.13636087
1.26584879	-1.08237463	0.00000000	4.93943595
1.37168419	-1.08237463	0.00000000	4.24108839
1.31876649	-1.13529233	0.00000000	4.60411435
1.31876649	-1.02945693	0.00000000	5.61361210
-0.05291770	-0.70208822	0.00000000	-8.68724161
0.05291770	-0.70208822	0.00000000	-9.04651302
0.00000000	-0.75500592	0.00000000	-9.13111719
0.00000000	-0.64917052	0.00000000	-9.04367841
2.05800137	0.04406596	0.00000000	-1.68129659
2.16383676	0.04406596	0.00000000	-0.84968320
2.11091906	-0.00885174	0.00000000	-1.48933970
2.11091906	0.09698366	0.00000000	-1.77014186
1.27232327	1.15754064	0.00000000	6.42664049
1.37815866	1.15754064	0.00000000	5.69222703

1.32524096	1.10462294	0.00000000	5.48212626
1.32524096	1.21045834	0.00000000	4.23801751
-0.09470669	0.70146698	0.00000000	-18.16108068
0.01112871	0.70146698	0.00000000	-18.41956134
-0.04178899	0.64854929	0.00000000	-0.17316796
-0.04178899	0.75438469	0.00000000	-1.32545033
-1.21473924	-1.48163476	0.00000000	3.74892183
-1.10890384	-1.48163476	0.00000000	4.15951202
-1.16182154	-1.53455246	0.00000000	1.76247826
-1.16182154	-1.42871706	0.00000000	2.20128918
-2.43005336	-0.81881509	0.00000000	-0.59948211
-2.32421796	-0.81881509	0.00000000	-0.79680747
-2.37713566	-0.87173279	0.00000000	-0.24489288
-2.37713566	-0.76589740	0.00000000	-0.22539285
-2.49323545	0.59060577	0.00000000	-1.40718293
-2.38740004	0.59060577	0.00000000	-1.86067452
-2.44031774	0.53768808	0.00000000	0.73230540
-2.44031774	0.64352347	0.00000000	0.71153574
-1.33902835	1.35334636	0.00000000	3.95123237
-1.23319294	1.35334636	0.00000000	4.33162378
-1.28611065	1.30042866	0.00000000	7.11629686
-1.28611065	1.40626406	0.00000000	5.86772684
45 13555.0 # 737.7 nm, (r7r2v7) 45			
0.088747	-0.02082	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.8485163126	# magnet. mom.
1.31876649	-1.08237463	0.00000000	6.00877238
0.00000000	-0.70208822	0.00000000	2.90806028
2.11091906	0.04406596	0.00000000	2.57424192
1.32524096	1.15754064	0.00000000	-3.72244048
-0.04178899	0.70146698	0.00000000	32.69385989
-1.16182154	-1.48163476	0.00000000	-34.34754966
-2.37713566	-0.81881509	0.00000000	19.47476557
-2.44031774	0.59060577	0.00000000	-8.46933152
-1.28611065	1.35334636	0.00000000	-15.25838255
1.26584879	-1.08237463	0.00000000	-1.84747792
1.37168419	-1.08237463	0.00000000	-1.31606565
1.31876649	-1.13529233	0.00000000	-1.12146227
1.31876649	-1.02945693	0.00000000	-1.82619574
-0.05291770	-0.70208822	0.00000000	12.70245621
0.05291770	-0.70208822	0.00000000	13.05702663
0.00000000	-0.75500592	0.00000000	-13.35486565
0.00000000	-0.64917052	0.00000000	-15.28623362
2.05800137	0.04406596	0.00000000	-1.74990351
2.16383676	0.04406596	0.00000000	-1.69069970
2.11091906	-0.00885174	0.00000000	0.21649847
2.11091906	0.09698366	0.00000000	0.69633467
1.27232327	1.15754064	0.00000000	-4.62481123
1.37815866	1.15754064	0.00000000	-4.00564019
1.32524096	1.10462294	0.00000000	6.64707262
1.32524096	1.21045834	0.00000000	5.69026036
-0.09470669	0.70146698	0.00000000	-16.73722508
0.01112871	0.70146698	0.00000000	-17.62429288
-0.04178899	0.64854929	0.00000000	0.64095985
-0.04178899	0.75438469	0.00000000	1.19205709
-1.21473924	-1.48163476	0.00000000	12.08020520
-1.10890384	-1.48163476	0.00000000	12.52488690
-1.16182154	-1.53455246	0.00000000	4.85184627
-1.16182154	-1.42871706	0.00000000	4.81415856
-2.43005336	-0.81881509	0.00000000	-5.06531125
-2.32421796	-0.81881509	0.00000000	-5.37827480
-2.37713566	-0.87173279	0.00000000	-4.48990938
-2.37713566	-0.76589740	0.00000000	-4.45730120
-2.49323545	0.59060577	0.00000000	4.35475220
-2.38740004	0.59060577	0.00000000	5.14957243
-2.44031774	0.53768808	0.00000000	-1.02587396
-2.44031774	0.64352347	0.00000000	-0.02752140
-1.33902835	1.35334636	0.00000000	1.70063622
-1.23319294	1.35334636	0.00000000	1.57779508
-1.28611065	1.30042866	0.00000000	6.08378528
-1.28611065	1.40626406	0.00000000	5.78676554
45 15636.0 # 639.5 nm, (r8r2v7) 45			
-0.23327	0.033457	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.9999114666E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-12.73829586
0.00000000	-0.70208822	0.00000000	42.17090235
2.11091906	0.04406596	0.00000000	5.82354314
1.32524096	1.15754064	0.00000000	46.57712631
-0.04178899	0.70146698	0.00000000	-77.63220708
-1.16182154	-1.48163476	0.00000000	-8.40403867
-2.37713566	-0.81881509	0.00000000	14.57848406
-2.44031774	0.59060577	0.00000000	-13.95199740
-1.28611065	1.35334636	0.00000000	34.35716529
1.26584879	-1.08237463	0.00000000	1.54234728
1.37168419	-1.08237463	0.00000000	1.55792705
1.31876649	-1.13529233	0.00000000	4.73627760
1.31876649	-1.02945693	0.00000000	4.97032539
-0.05291770	-0.70208822	0.00000000	-9.95210735

0.05291770	-0.70208822	0.00000000	-8.84660881
0.00000000	-0.75500592	0.00000000	-11.93107344
0.00000000	-0.64917052	0.00000000	-11.55806871
2.05800137	0.04406596	0.00000000	1.98496036
2.16383676	0.04406596	0.00000000	1.89037186
2.11091906	-0.00885174	0.00000000	-6.19828088
2.11091906	0.09698366	0.00000000	-3.53554040
1.27232327	1.15754064	0.00000000	-12.71985549
1.37815866	1.15754064	0.00000000	-12.24265757
1.32524096	1.10462294	0.00000000	-11.40167122
1.32524096	1.21045834	0.00000000	-10.30332155
-0.09470669	0.70146698	0.00000000	31.11566505
0.01112871	0.70146698	0.00000000	29.07192381
-0.04178899	0.64854929	0.00000000	8.18827269
-0.04178899	0.75438469	0.00000000	9.40162753
-1.21473924	-1.48163476	0.00000000	0.32623727
-1.10890384	-1.48163476	0.00000000	0.89988912
-1.16182154	-1.53455246	0.00000000	2.85709432
-1.16182154	-1.42871706	0.00000000	4.51853302
-2.43005336	-0.81881509	0.00000000	-8.91693944
-2.32421796	-0.81881509	0.00000000	-10.41502400
-2.37713566	-0.87173279	0.00000000	2.16536285
-2.37713566	-0.76589740	0.00000000	2.49077652
-2.49323545	0.59060577	0.00000000	1.53419612
-2.38740004	0.59060577	0.00000000	3.06167147
-2.44031774	0.53768808	0.00000000	5.06398121
-2.44031774	0.64352347	0.00000000	4.47970057
-1.33902835	1.35334636	0.00000000	-9.10611941
-1.23319294	1.35334636	0.00000000	-9.20099970
-1.28611065	1.30042866	0.00000000	-9.23090648
-1.28611065	1.40626406	0.00000000	-7.07864879
&TRANSITION 9->...			
0	0.0 # (r3v2r3v1) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v3r3v1) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v4r3v1) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v5r3v1) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v6r3v1) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v7r3v1) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v8r3v1) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v9r3v1) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
45	10898.0 # 917.6 nm, (r7r3v1) 45		
	-0.30567 0.469249	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	-0.106	# magnet. mom.
	1.31876649 -1.08237463	0.00000000	-309.83504265
	0.00000000 -0.70208822	0.00000000	3.36956239
	2.11091906 0.04406596	0.00000000	-78.17595123
	1.32524096 1.15754064	0.00000000	-93.73779597
	-0.04178899 0.70146698	0.00000000	156.95133569
	-1.16182154 -1.48163476	0.00000000	28.70693291
	-2.37713566 -0.81881509	0.00000000	-79.34231383
	-2.44031774 0.59060577	0.00000000	-31.73946188
	-1.28611065 1.35334636	0.00000000	-30.22470781
	1.26584879 -1.08237463	0.00000000	45.56542874
	1.37168419 -1.08237463	0.00000000	54.14291145
	1.31876649 -1.13529233	0.00000000	94.80939633
	1.31876649 -1.02945693	0.00000000	116.15476723
	-0.05291770 -0.70208822	0.00000000	-37.95425132
	0.05291770 -0.70208822	0.00000000	-41.64909664
	0.00000000 -0.75500592	0.00000000	41.03735117
	0.00000000 -0.64917052	0.00000000	35.59088084
	2.05800137 0.04406596	0.00000000	-22.90351502
	2.16383676 0.04406596	0.00000000	-12.82945601
	2.11091906 -0.00885174	0.00000000	55.97935817
	2.11091906 0.09698366	0.00000000	56.56073965
	1.27232327 1.15754064	0.00000000	-9.44400135
	1.37815866 1.15754064	0.00000000	-8.52204618
	1.32524096 1.10462294	0.00000000	62.28135174
	1.32524096 1.21045834	0.00000000	50.39204535
	-0.09470669 0.70146698	0.00000000	-75.18249760
	0.01112871 0.70146698	0.00000000	-84.37998975
	-0.04178899 0.64854929	0.00000000	-2.40065707

-0.04178899	0.75438469	0.00000000	4.40338270
-1.21473924	-1.48163476	0.00000000	-11.20328248
-1.10890384	-1.48163476	0.00000000	-11.95861247
-1.16182154	-1.53455246	0.00000000	-0.68935277
-1.16182154	-1.42871706	0.00000000	-5.55139221
-2.43005336	-0.81881509	0.00000000	10.22432741
-2.32421796	-0.81881509	0.00000000	14.41327878
-2.37713566	-0.87173279	0.00000000	26.09248622
-2.37713566	-0.76589740	0.00000000	29.17340135
-2.49323545	0.59060577	0.00000000	8.18328117
-2.38740004	0.59060577	0.00000000	8.79049090
-2.44031774	0.53768808	0.00000000	6.66651013
-2.44031774	0.64352347	0.00000000	8.05109940
-1.33902835	1.35334636	0.00000000	-15.55516709
-1.23319294	1.35334636	0.00000000	-16.37197919
-1.28611065	1.30042866	0.00000000	31.54149515
-1.28611065	1.40626406	0.00000000	30.56875569
45 12979.0 # 770.5 nm, (r8r3v1) 45			
-0.17628	-0.23826	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.209857	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-5.52211934
0.00000000	-0.70208822	0.00000000	175.67078322
2.11091906	0.04406596	0.00000000	99.41567420
1.32524096	1.15754064	0.00000000	-38.98036973
-0.04178899	0.70146698	0.00000000	-110.19881931
-1.16182154	-1.48163476	0.00000000	-98.30021509
-2.37713566	-0.81881509	0.00000000	64.14240763
-2.44031774	0.59060577	0.00000000	6.77913533
-1.28611065	1.35334636	0.00000000	42.30961672
1.26584879	-1.08237463	0.00000000	10.45141948
1.37168419	-1.08237463	0.00000000	8.50482076
1.31876649	-1.13529233	0.00000000	-7.37110884
1.31876649	-1.02945693	0.00000000	-5.70044410
-0.05291770	-0.70208822	0.00000000	-67.32474691
0.05291770	-0.70208822	0.00000000	-64.78009246
0.00000000	-0.75500592	0.00000000	-21.98434654
0.00000000	-0.64917052	0.00000000	-23.07801920
2.05800137	0.04406596	0.00000000	-24.39221938
2.16383676	0.04406596	0.00000000	-22.45140415
2.11091906	-0.00885174	0.00000000	-26.28109066
2.11091906	0.09698366	0.00000000	-26.32088255
1.27232327	1.15754064	0.00000000	29.51904477
1.37815866	1.15754064	0.00000000	26.81167537
1.32524096	1.10462294	0.00000000	-10.15074361
1.32524096	1.21045834	0.00000000	-7.34233896
-0.09470669	0.70146698	0.00000000	42.34978071
0.01112871	0.70146698	0.00000000	44.67167551
-0.04178899	0.64854929	0.00000000	16.15339363
-0.04178899	0.75438469	0.00000000	7.69111682
-1.21473924	-1.48163476	0.00000000	17.50422712
-1.10890384	-1.48163476	0.00000000	17.85646315
-1.16182154	-1.53455246	0.00000000	25.89355385
-1.16182154	-1.42871706	0.00000000	38.40280137
-2.43005336	-0.81881509	0.00000000	-39.68108571
-2.32421796	-0.81881509	0.00000000	-48.67585854
-2.37713566	-0.87173279	0.00000000	8.91278539
-2.37713566	-0.76589740	0.00000000	15.08908364
-2.49323545	0.59060577	0.00000000	19.50365682
-2.38740004	0.59060577	0.00000000	22.92016254
-2.44031774	0.53768808	0.00000000	-26.54089520
-2.44031774	0.64352347	0.00000000	-22.97846604
-1.33902835	1.35334636	0.00000000	1.01701254
-1.23319294	1.35334636	0.00000000	-1.91354286
-1.28611065	1.30042866	0.00000000	-22.44244031
-1.28611065	1.40626406	0.00000000	-19.15904107
&TRANSITION 10->...			
0 0.0 # (r3v3r3v2) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v4r3v2) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v5r3v2) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v6r3v2) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v7r3v2) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v8r3v2) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v9r3v2) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.

45	10898.0	# 917.6 nm,	(r7r3v2)	45
	-0.28422	0.436319	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	-0.0976	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-288.09223264
	0.00000000	-0.70208822	0.00000000	3.13310187
	2.11091906	0.04406596	0.00000000	-72.68991956
	1.32524096	1.15754064	0.00000000	-87.15970502
	-0.04178899	0.70146698	0.00000000	145.93720687
	-1.16182154	-1.48163476	0.00000000	26.69241130
	-2.37713566	-0.81881509	0.00000000	-73.77443216
	-2.44031774	0.59060577	0.00000000	-29.51213122
	-1.28611065	1.35334636	0.00000000	-28.10367569
	1.26584879	-1.08237463	0.00000000	42.36785479
	1.37168419	-1.08237463	0.00000000	50.34340889
	1.31876649	-1.13529233	0.00000000	88.15610536
	1.31876649	-1.02945693	0.00000000	108.00355550
	-0.05291770	-0.70208822	0.00000000	-35.29079508
	0.05291770	-0.70208822	0.00000000	-38.72635301
	0.00000000	-0.75500592	0.00000000	38.15753705
	0.00000000	-0.64917052	0.00000000	33.09327516
	2.05800137	0.04406596	0.00000000	-21.29625081
	2.16383676	0.04406596	0.00000000	-11.92914331
	2.11091906	-0.00885174	0.00000000	52.05098216
	2.11091906	0.09698366	0.00000000	52.59156494
	1.27232327	1.15754064	0.00000000	-8.78126441
	1.37815866	1.15754064	0.00000000	-7.92400785
	1.32524096	1.10462294	0.00000000	57.91073056
	1.32524096	1.21045834	0.00000000	46.85576146
	-0.09470669	0.70146698	0.00000000	-69.90653285
	0.01112871	0.70146698	0.00000000	-78.45858696
	-0.04178899	0.64854929	0.00000000	-2.23218991
	-0.04178899	0.75438469	0.00000000	4.09437338
	-1.21473924	-1.48163476	0.00000000	-10.41708722
	-1.10890384	-1.48163476	0.00000000	-11.11941159
	-1.16182154	-1.53455246	0.00000000	-0.64097713
	-1.16182154	-1.42871706	0.00000000	-5.16182083
	-2.43005336	-0.81881509	0.00000000	9.50683075
	-2.32421796	-0.81881509	0.00000000	13.40182062
	-2.37713566	-0.87173279	0.00000000	24.26143456
	-2.37713566	-0.76589740	0.00000000	27.12614511
	-2.49323545	0.59060577	0.00000000	7.60901582
	-2.38740004	0.59060577	0.00000000	8.17361435
	-2.44031774	0.53768808	0.00000000	6.19868486
	-2.44031774	0.64352347	0.00000000	7.48610997
	-1.33902835	1.35334636	0.00000000	-14.46357642
	-1.23319294	1.35334636	0.00000000	-15.22306837
	-1.28611065	1.30042866	0.00000000	29.32805689
	-1.28611065	1.40626406	0.00000000	28.42357985
45	12979.0	# 770.5 nm,	(r8r3v2)	45
	-0.16391	-0.22154	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	-0.1937	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-5.13460219
	0.00000000	-0.70208822	0.00000000	163.34300896
	2.11091906	0.04406596	0.00000000	92.43913566
	1.32524096	1.15754064	0.00000000	-36.24490519
	-0.04178899	0.70146698	0.00000000	-102.46556883
	-1.16182154	-1.48163476	0.00000000	-91.40195439
	-2.37713566	-0.81881509	0.00000000	59.64118605
	-2.44031774	0.59060577	0.00000000	6.30340653
	-1.28611065	1.35334636	0.00000000	39.34052081
	1.26584879	-1.08237463	0.00000000	9.71798653
	1.37168419	-1.08237463	0.00000000	7.90799124
	1.31876649	-1.13529233	0.00000000	-6.85383805
	1.31876649	-1.02945693	0.00000000	-5.30041293
	-0.05291770	-0.70208822	0.00000000	-62.60020327
	0.05291770	-0.70208822	0.00000000	-60.23412106
	0.00000000	-0.75500592	0.00000000	-20.44158538
	0.00000000	-0.64917052	0.00000000	-21.45850908
	2.05800137	0.04406596	0.00000000	-22.68048468
	2.16383676	0.04406596	0.00000000	-20.87586702
	2.11091906	-0.00885174	0.00000000	-24.43680359
	2.11091906	0.09698366	0.00000000	-24.47380307
	1.27232327	1.15754064	0.00000000	27.44753286
	1.37815866	1.15754064	0.00000000	24.93015429
	1.32524096	1.10462294	0.00000000	-9.43841073
	1.32524096	1.21045834	0.00000000	-6.82708710
	-0.09470669	0.70146698	0.00000000	39.37786628
	0.01112871	0.70146698	0.00000000	41.53682109
	-0.04178899	0.64854929	0.00000000	15.01982215
	-0.04178899	0.75438469	0.00000000	7.15138933
	-1.21473924	-1.48163476	0.00000000	16.27586030
	-1.10890384	-1.48163476	0.00000000	16.60337802
	-1.16182154	-1.53455246	0.00000000	24.07646235
	-1.16182154	-1.42871706	0.00000000	35.70786794
	-2.43005336	-0.81881509	0.00000000	-36.89644812
	-2.32421796	-0.81881509	0.00000000	-45.26000882
	-2.37713566	-0.87173279	0.00000000	8.28732677

-2.37713566	-0.76589740	0.00000000	14.03020058
-2.49323545	0.59060577	0.00000000	18.13497915
-2.38740004	0.59060577	0.00000000	21.31173008
-2.44031774	0.53768808	0.00000000	-24.67837624
-2.44031774	0.64352347	0.00000000	-21.36594211
-1.33902835	1.35334636	0.00000000	0.94564324
-1.23319294	1.35334636	0.00000000	-1.77925915
-1.28611065	1.30042866	0.00000000	-20.86753221
-1.28611065	1.40626406	0.00000000	-17.81454696
&TRANSITION 11->...			
0	0.0 # (r3v4r3v3) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v5r3v3) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v6r3v3) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v7r3v3) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v8r3v3) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v9r3v3) 45		
	0.00000000	0.00000000	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
45	10898.0 # 917.6 nm, (r7r3v3) 45		
	-0.17161	0.00000000 1.0	# electr. mom.
	0.00000000	0.0610	# magnet. mom.
	1.31876649	-1.08237463	0.00000000 -173.94248009
	0.00000000	-0.70208822	0.00000000 1.89168415
	2.11091906	0.04406596	0.00000000 -43.88825332
	1.32524096	1.15754064	0.00000000 -52.62472756
	-0.04178899	0.70146698	0.00000000 88.11303056
	-1.16182154	-1.48163476	0.00000000 16.11617286
	-2.37713566	-0.81881509	0.00000000 -44.54305338
	-2.44031774	0.59060577	0.00000000 -17.81864526
	-1.28611065	1.35334636	0.00000000 -16.96825702
	1.26584879	-1.08237463	0.00000000 25.58059157
	1.37168419	-1.08237463	0.00000000 30.39602046
	1.31876649	-1.13529233	0.00000000 53.22632777
	1.31876649	-1.02945693	0.00000000 65.20969388
	-0.05291770	-0.70208822	0.00000000 -21.30764986
	0.05291770	-0.70208822	0.00000000 -23.38194899
	0.00000000	-0.75500592	0.00000000 23.03851294
	0.00000000	-0.64917052	0.00000000 19.98084538
	2.05800137	0.04406596	0.00000000 -12.85811370
	2.16383676	0.04406596	0.00000000 -7.20250162
	2.11091906	-0.00885174	0.00000000 31.42700810
	2.11091906	0.09698366	0.00000000 31.75339770
	1.27232327	1.15754064	0.00000000 -5.30189549
	1.37815866	1.15754064	0.00000000 -4.78430663
	1.32524096	1.10462294	0.00000000 34.96496940
	1.32524096	1.21045834	0.00000000 28.29027107
	-0.09470669	0.70146698	0.00000000 -42.20771795
	0.01112871	0.70146698	0.00000000 -47.37122232
	-0.04178899	0.64854929	0.00000000 -1.34773730
	-0.04178899	0.75438469	0.00000000 2.47207450
	-1.21473924	-1.48163476	0.00000000 -6.28956210
	-1.10890384	-1.48163476	0.00000000 -6.71360700
	-1.16182154	-1.53455246	0.00000000 -0.38700506
	-1.16182154	-1.42871706	0.00000000 -3.11657107
	-2.43005336	-0.81881509	0.00000000 5.73997328
	-2.32421796	-0.81881509	0.00000000 8.09166528
	-2.37713566	-0.87173279	0.00000000 14.64841332
	-2.37713566	-0.76589740	0.00000000 16.37804988
	-2.49323545	0.59060577	0.00000000 4.59412276
	-2.38740004	0.59060577	0.00000000 4.93501244
	-2.44031774	0.53768808	0.00000000 3.74260218
	-2.44031774	0.64352347	0.00000000 4.51991545
	-1.33902835	1.35334636	0.00000000 -8.73272539
	-1.23319294	1.35334636	0.00000000 -9.19128656
	-1.28611065	1.30042866	0.00000000 17.70750605
	-1.28611065	1.40626406	0.00000000 17.16140670
45	12979.0 # 770.5 nm, (r8r3v3) 45		
	-0.09896	-0.13376	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	0.1211 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -3.10013717
	0.00000000	-0.70208822	0.00000000 98.62219409
	2.11091906	0.04406596	0.00000000 55.81230832
	1.32524096	1.15754064	0.00000000 -21.88371634
	-0.04178899	0.70146698	0.00000000 -61.86600382
	-1.16182154	-1.48163476	0.00000000 -55.18608567
	-2.37713566	-0.81881509	0.00000000 36.00977271
	-2.44031774	0.59060577	0.00000000 3.80583036

-1.28611065	1.35334636	0.00000000	23.75276728
1.26584879	-1.08237463	0.00000000	5.86746357
1.37168419	-1.08237463	0.00000000	4.77463622
1.31876649	-1.13529233	0.00000000	-4.13816637
1.31876649	-1.02945693	0.00000000	-3.20024932
-0.05291770	-0.70208822	0.00000000	-37.79634914
0.05291770	-0.70208822	0.00000000	-36.36777121
0.00000000	-0.75500592	0.00000000	-12.34208929
0.00000000	-0.64917052	0.00000000	-12.95608096
2.05800137	0.04406596	0.00000000	-13.69387755
2.16383676	0.04406596	0.00000000	-12.60429707
2.11091906	-0.00885174	0.00000000	-14.75429651
2.11091906	0.09698366	0.00000000	-14.77663582
1.27232327	1.15754064	0.00000000	16.57209531
1.37815866	1.15754064	0.00000000	15.05216863
1.32524096	1.10462294	0.00000000	-5.69866308
1.32524096	1.21045834	0.00000000	-4.12201485
-0.09470669	0.70146698	0.00000000	23.77531549
0.01112871	0.70146698	0.00000000	25.07883537
-0.04178899	0.64854929	0.00000000	9.06857186
-0.04178899	0.75438469	0.00000000	4.31781997
-1.21473924	-1.48163476	0.00000000	9.82693452
-1.10890384	-1.48163476	0.00000000	10.02468107
-1.16182154	-1.53455246	0.00000000	14.53673199
-1.16182154	-1.42871706	0.00000000	21.55946743
-2.43005336	-0.81881509	0.00000000	-22.27710075
-2.32421796	-0.81881509	0.00000000	-27.32679778
-2.37713566	-0.87173279	0.00000000	5.00366899
-2.37713566	-0.76589740	0.00000000	8.47106450
-2.49323545	0.59060577	0.00000000	10.94942137
-2.38740004	0.59060577	0.00000000	12.86745967
-2.44031774	0.53768808	0.00000000	-14.90015169
-2.44031774	0.64352347	0.00000000	-12.90019146
-1.33902835	1.35334636	0.00000000	0.57095441
-1.23319294	1.35334636	0.00000000	-1.07426968
-1.28611065	1.30042866	0.00000000	-12.59926473
-1.28611065	1.40626406	0.00000000	-10.75595288
&TRANSITION 12->...			
0	0.0 # (r3v5r3v4) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v6r3v4) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v7r3v4) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v8r3v4) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v9r3v4) 45		
	0.00000000 0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.00000000	# magnet. mom.
45	10898.0 # 917.6 nm, (r7r3v4) 45		
	-0.18233 0.279903	0.00000000 1.0	# electr. mom.
	0.00000000 0.00000000	0.0813	# magnet. mom.
	1.31876649 -1.08237463	0.00000000	-184.81388509
	0.00000000 -0.70208822	0.00000000	2.00991441
	2.11091906 0.04406596	0.00000000	-46.63126915
	1.32524096 1.15754064	0.00000000	-55.91377303
	-0.04178899 0.70146698	0.00000000	93.62009497
	-1.16182154 -1.48163476	0.00000000	17.12343366
	-2.37713566 -0.81881509	0.00000000	-47.32699422
	-2.44031774 0.59060577	0.00000000	-18.93231059
	-1.28611065 1.35334636	0.00000000	-18.02877308
	1.26584879 -1.08237463	0.00000000	27.17937854
	1.37168419 -1.08237463	0.00000000	32.29577174
	1.31876649 -1.13529233	0.00000000	56.55297325
	1.31876649 -1.02945693	0.00000000	69.28529975
	-0.05291770 -0.70208822	0.00000000	-22.63937798
	0.05291770 -0.70208822	0.00000000	-24.84332080
	0.00000000 -0.75500592	0.00000000	24.47842000
	0.00000000 -0.64917052	0.00000000	21.22964822
	2.05800137 0.04406596	0.00000000	-13.66174580
	2.16383676 0.04406596	0.00000000	-7.65265797
	2.11091906 -0.00885174	0.00000000	33.39119610
	2.11091906 0.09698366	0.00000000	33.73798506
	1.27232327 1.15754064	0.00000000	-5.63326396
	1.37815866 1.15754064	0.00000000	-5.08332579
	1.32524096 1.10462294	0.00000000	37.15027998
	1.32524096 1.21045834	0.00000000	30.05841301
	-0.09470669 0.70146698	0.00000000	-44.84570032
	0.01112871 0.70146698	0.00000000	-50.33192371
	-0.04178899 0.64854929	0.00000000	-1.43197088
	-0.04178899 0.75438469	0.00000000	2.62657915
	-1.21473924 -1.48163476	0.00000000	-6.68265973
	-1.10890384 -1.48163476	0.00000000	-7.13320744

-1.16182154	-1.53455246	0.00000000	-0.41119288
-1.16182154	-1.42871706	0.00000000	-3.31135676
-2.43005336	-0.81881509	0.00000000	6.09872161
-2.32421796	-0.81881509	0.00000000	8.59739436
-2.37713566	-0.87173279	0.00000000	15.56393915
-2.37713566	-0.76589740	0.00000000	17.40167800
-2.49323545	0.59060577	0.00000000	4.88125543
-2.38740004	0.59060577	0.00000000	5.24345071
-2.44031774	0.53768808	0.00000000	3.97651482
-2.44031774	0.64352347	0.00000000	4.80241017
-1.33902835	1.35334636	0.00000000	-9.27852072
-1.23319294	1.35334636	0.00000000	-9.76574197
-1.28611065	1.30042866	0.00000000	18.81422518
-1.28611065	1.40626406	0.00000000	18.23399462
45 12979.0 # 770.5 nm, (r8r3v4) 45			
-0.10515	-0.14212	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.1614	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-3.29389574
0.00000000	-0.70208822	0.00000000	104.78608122
2.11091906	0.04406596	0.00000000	59.30057759
1.32524096	1.15754064	0.00000000	-23.25144861
-0.04178899	0.70146698	0.00000000	-65.73262906
-1.16182154	-1.48163476	0.00000000	-58.63521602
-2.37713566	-0.81881509	0.00000000	38.26038350
-2.44031774	0.59060577	0.00000000	4.04369476
-1.28611065	1.35334636	0.00000000	25.23731524
1.26584879	-1.08237463	0.00000000	6.23418004
1.37168419	-1.08237463	0.00000000	5.07305098
1.31876649	-1.13529233	0.00000000	-4.39680177
1.31876649	-1.02945693	0.00000000	-3.40026490
-0.05291770	-0.70208822	0.00000000	-40.15862096
0.05291770	-0.70208822	0.00000000	-38.64075691
0.00000000	-0.75500592	0.00000000	-13.11346987
0.00000000	-0.64917052	0.00000000	-13.76583602
2.05800137	0.04406596	0.00000000	-14.54974489
2.16383676	0.04406596	0.00000000	-13.39206564
2.11091906	-0.00885174	0.00000000	-15.67644004
2.11091906	0.09698366	0.00000000	-15.70017556
1.27232327	1.15754064	0.00000000	17.60785127
1.37815866	1.15754064	0.00000000	15.99292917
1.32524096	1.10462294	0.00000000	-6.05482952
1.32524096	1.21045834	0.00000000	-4.37964078
-0.09470669	0.70146698	0.00000000	25.26127271
0.01112871	0.70146698	0.00000000	26.64626258
-0.04178899	0.64854929	0.00000000	9.63535760
-0.04178899	0.75438469	0.00000000	4.58768372
-1.21473924	-1.48163476	0.00000000	10.44111793
-1.10890384	-1.48163476	0.00000000	10.65122364
-1.16182154	-1.53455246	0.00000000	15.44527774
-1.16182154	-1.42871706	0.00000000	22.90693415
-2.43005336	-0.81881509	0.00000000	-23.66941955
-2.32421796	-0.81881509	0.00000000	-29.03472264
-2.37713566	-0.87173279	0.00000000	5.31639830
-2.37713566	-0.76589740	0.00000000	9.00050603
-2.49323545	0.59060577	0.00000000	11.63376021
-2.38740004	0.59060577	0.00000000	13.67167590
-2.44031774	0.53768808	0.00000000	-15.83141117
-2.44031774	0.64352347	0.00000000	-13.70645343
-1.33902835	1.35334636	0.00000000	0.60663906
-1.23319294	1.35334636	0.00000000	-1.14141153
-1.28611065	1.30042866	0.00000000	-13.38671878
-1.28611065	1.40626406	0.00000000	-11.42819994
&TRANSITION 13->...			
0 0.0 # (r3v6r3v5) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v7r3v5) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v8r3v5) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
0 0.0 # (r3v9r3v5) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.00000000	# magnet. mom.
45 10898.0 # 917.6 nm, (r7r3v5) 45			
-0.16088	0.246973	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.0813	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-163.07107508
0.00000000	-0.70208822	0.00000000	1.77345389
2.11091906	0.04406596	0.00000000	-41.14523749
1.32524096	1.15754064	0.00000000	-49.33568209
-0.04178899	0.70146698	0.00000000	82.60596615
-1.16182154	-1.48163476	0.00000000	15.10891206
-2.37713566	-0.81881509	0.00000000	-41.75911254
-2.44031774	0.59060577	0.00000000	-16.70497994
-1.28611065	1.35334636	0.00000000	-15.90774095

1.26584879	-1.08237463	0.00000000	23.98180460
1.37168419	-1.08237463	0.00000000	28.49626918
1.31876649	-1.13529233	0.00000000	49.89968228
1.31876649	-1.02945693	0.00000000	61.13408802
-0.05291770	-0.70208822	0.00000000	-19.97592175
0.05291770	-0.70208822	0.00000000	-21.92057718
0.00000000	-0.75500592	0.00000000	21.59860588
0.00000000	-0.64917052	0.00000000	18.73204255
2.05800137	0.04406596	0.00000000	-12.05448159
2.16383676	0.04406596	0.00000000	-6.75234527
2.11091906	-0.00885174	0.00000000	29.46282009
2.11091906	0.09698366	0.00000000	29.76881034
1.27232327	1.15754064	0.00000000	-4.97052703
1.37815866	1.15754064	0.00000000	-4.48528746
1.32524096	1.10462294	0.00000000	32.77965881
1.32524096	1.21045834	0.00000000	26.52212913
-0.09470669	0.70146698	0.00000000	-39.56973558
0.01112871	0.70146698	0.00000000	-44.41052092
-0.04178899	0.64854929	0.00000000	-1.26350372
-0.04178899	0.75438469	0.00000000	2.31756984
-1.21473924	-1.48163476	0.00000000	-5.89646447
-1.10890384	-1.48163476	0.00000000	-6.29400656
-1.16182154	-1.53455246	0.00000000	-0.36281725
-1.16182154	-1.42871706	0.00000000	-2.92178537
-2.43005336	-0.81881509	0.00000000	5.38122495
-2.32421796	-0.81881509	0.00000000	7.58593620
-2.37713566	-0.87173279	0.00000000	13.73288749
-2.37713566	-0.76589740	0.00000000	15.35442176
-2.49323545	0.59060577	0.00000000	4.30699009
-2.38740004	0.59060577	0.00000000	4.62657416
-2.44031774	0.53768808	0.00000000	3.50868954
-2.44031774	0.64352347	0.00000000	4.23742074
-1.33902835	1.35334636	0.00000000	-8.18693005
-1.23319294	1.35334636	0.00000000	-8.61683115
-1.28611065	1.30042866	0.00000000	16.60078692
-1.28611065	1.40626406	0.00000000	16.08881878
45 12979.0 # 770.5 nm, (r8r3v5) 45			
-0.09278	-0.1254	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.1614	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-2.90637860
0.00000000	-0.70208822	0.00000000	92.45830696
2.11091906	0.04406596	0.00000000	52.32403905
1.32524096	1.15754064	0.00000000	-20.51598407
-0.04178899	0.70146698	0.00000000	-57.99937859
-1.16182154	-1.48163476	0.00000000	-51.73695531
-2.37713566	-0.81881509	0.00000000	33.75916191
-2.44031774	0.59060577	0.00000000	3.56796596
-1.28611065	1.35334636	0.00000000	22.26821933
1.26584879	-1.08237463	0.00000000	5.50074710
1.37168419	-1.08237463	0.00000000	4.47622145
1.31876649	-1.13529233	0.00000000	-3.87953097
1.31876649	-1.02945693	0.00000000	-3.00023374
-0.05291770	-0.70208822	0.00000000	-35.43407732
0.05291770	-0.70208822	0.00000000	-34.09478551
0.00000000	-0.75500592	0.00000000	-11.57070871
0.00000000	-0.64917052	0.00000000	-12.14632590
2.05800137	0.04406596	0.00000000	-12.83801020
2.16383676	0.04406596	0.00000000	-11.81652850
2.11091906	-0.00885174	0.00000000	-13.83215298
2.11091906	0.09698366	0.00000000	-13.85309608
1.27232327	1.15754064	0.00000000	15.53633935
1.37815866	1.15754064	0.00000000	14.11140809
1.32524096	1.10462294	0.00000000	-5.34249664
1.32524096	1.21045834	0.00000000	-3.86438893
-0.09470669	0.70146698	0.00000000	22.28935827
0.01112871	0.70146698	0.00000000	23.51140816
-0.04178899	0.64854929	0.00000000	8.50178612
-0.04178899	0.75438469	0.00000000	4.04795622
-1.21473924	-1.48163476	0.00000000	9.21275111
-1.10890384	-1.48163476	0.00000000	9.39813850
-1.16182154	-1.53455246	0.00000000	13.62818624
-1.16182154	-1.42871706	0.00000000	20.21200072
-2.43005336	-0.81881509	0.00000000	-20.88478195
-2.32421796	-0.81881509	0.00000000	-25.61887292
-2.37713566	-0.87173279	0.00000000	4.69093968
-2.37713566	-0.76589740	0.00000000	7.94162297
-2.49323545	0.59060577	0.00000000	10.26508254
-2.38740004	0.59060577	0.00000000	12.06324344
-2.44031774	0.53768808	0.00000000	-13.96889221
-2.44031774	0.64352347	0.00000000	-12.09392950
-1.33902835	1.35334636	0.00000000	0.53526976
-1.23319294	1.35334636	0.00000000	-1.00712782
-1.28611065	1.30042866	0.00000000	-11.81181069
-1.28611065	1.40626406	0.00000000	-10.08370583
&TRANSITION 14->...			
0 0.0 # (r3v7r3v6) 45			
0.00000000	0.00000000	0.00000000 1.0	# electr. mom.

	0.00000000	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v8r3v6) 45			
	0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v9r3v6) 45			
	0.00000000	0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	0.00000000	# magnet. mom.
45	10898.0 # 917.6 nm, (r7r3v6) 45			
	-0.09653	0.148184	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	0.0813	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-97.84264505
	0.00000000	-0.70208822	0.00000000	1.06407233
	2.11091906	0.04406596	0.00000000	-24.68714249
	1.32524096	1.15754064	0.00000000	-29.60140925
	-0.04178899	0.70146698	0.00000000	49.56357969
	-1.16182154	-1.48163476	0.00000000	9.06534723
	-2.37713566	-0.81881509	0.00000000	-25.05546753
	-2.44031774	0.59060577	0.00000000	-10.02298796
	-1.28611065	1.35334636	0.00000000	-9.54464457
	1.26584879	-1.08237463	0.00000000	14.38908276
	1.37168419	-1.08237463	0.00000000	17.09776151
	1.31876649	-1.13529233	0.00000000	29.93980937
	1.31876649	-1.02945693	0.00000000	36.68045281
	-0.05291770	-0.70208822	0.00000000	-11.98555305
	0.05291770	-0.70208822	0.00000000	-13.15234631
	0.00000000	-0.75500592	0.00000000	12.95916353
	0.00000000	-0.64917052	0.00000000	11.23922553
	2.05800137	0.04406596	0.00000000	-7.23268895
	2.16383676	0.04406596	0.00000000	-4.05140716
	2.11091906	-0.00885174	0.00000000	17.67769205
	2.11091906	0.09698366	0.00000000	17.86128621
	1.27232327	1.15754064	0.00000000	-2.98231622
	1.37815866	1.15754064	0.00000000	-2.69117248
	1.32524096	1.10462294	0.00000000	19.66779528
	1.32524096	1.21045834	0.00000000	15.91327748
	-0.09470669	0.70146698	0.00000000	-23.74184135
	0.01112871	0.70146698	0.00000000	-26.64631255
	-0.04178899	0.64854929	0.00000000	-0.75810223
	-0.04178899	0.75438469	0.00000000	1.39054190
	-1.21473924	-1.48163476	0.00000000	-3.53787868
	-1.10890384	-1.48163476	0.00000000	-3.77640394
	-1.16182154	-1.53455246	0.00000000	-0.21769035
	-1.16182154	-1.42871706	0.00000000	-1.75307122
	-2.43005336	-0.81881509	0.00000000	3.22873497
	-2.32421796	-0.81881509	0.00000000	4.55156172
	-2.37713566	-0.87173279	0.00000000	8.23973249
	-2.37713566	-0.76589740	0.00000000	9.21265306
	-2.49323545	0.59060577	0.00000000	2.58419405
	-2.38740004	0.59060577	0.00000000	2.77594449
	-2.44031774	0.53768808	0.00000000	2.10521373
	-2.44031774	0.64352347	0.00000000	2.54245244
	-1.33902835	1.35334636	0.00000000	-4.91215803
	-1.23319294	1.35334636	0.00000000	-5.17009869
	-1.28611065	1.30042866	0.00000000	9.96047215
	-1.28611065	1.40626406	0.00000000	9.65329127
45	12979.0 # 770.5 nm, (r8r3v6) 45			
	-0.05567	-0.07524	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	0.1614	# magnet. mom.
	1.31876649	-1.08237463	0.00000000	-1.74382716
	0.00000000	-0.70208822	0.00000000	55.47498418
	2.11091906	0.04406596	0.00000000	31.39442343
	1.32524096	1.15754064	0.00000000	-12.30959044
	-0.04178899	0.70146698	0.00000000	-34.79962715
	-1.16182154	-1.48163476	0.00000000	-31.04217319
	-2.37713566	-0.81881509	0.00000000	20.25549715
	-2.44031774	0.59060577	0.00000000	2.14077958
	-1.28611065	1.35334636	0.00000000	13.36093160
	1.26584879	-1.08237463	0.00000000	3.30044826
	1.37168419	-1.08237463	0.00000000	2.68573287
	1.31876649	-1.13529233	0.00000000	-2.32771858
	1.31876649	-1.02945693	0.00000000	-1.80014024
	-0.05291770	-0.70208822	0.00000000	-21.26044639
	0.05291770	-0.70208822	0.00000000	-20.45687130
	0.00000000	-0.75500592	0.00000000	-6.94242522
	0.00000000	-0.64917052	0.00000000	-7.28779554
	2.05800137	0.04406596	0.00000000	-7.70280612
	2.16383676	0.04406596	0.00000000	-7.08991710
	2.11091906	-0.00885174	0.00000000	-8.29929179
	2.11091906	0.09698366	0.00000000	-8.31185765
	1.27232327	1.15754064	0.00000000	9.32180361
	1.37815866	1.15754064	0.00000000	8.46684485
	1.32524096	1.10462294	0.00000000	-3.20549798
	1.32524096	1.21045834	0.00000000	-2.31863336
	-0.09470669	0.70146698	0.00000000	13.37361496
	0.01112871	0.70146698	0.00000000	14.10684490
	-0.04178899	0.64854929	0.00000000	5.10107167
	-0.04178899	0.75438469	0.00000000	2.42877373

-1.21473924	-1.48163476	0.00000000	5.52765067
-1.10890384	-1.48163476	0.00000000	5.63888310
-1.16182154	-1.53455246	0.00000000	8.17691174
-1.16182154	-1.42871706	0.00000000	12.12720043
-2.43005336	-0.81881509	0.00000000	-12.53086917
-2.32421796	-0.81881509	0.00000000	-15.37132375
-2.37713566	-0.87173279	0.00000000	2.81456381
-2.37713566	-0.76589740	0.00000000	4.76497378
-2.49323545	0.59060577	0.00000000	6.15904952
-2.38740004	0.59060577	0.00000000	7.23794606
-2.44031774	0.53768808	0.00000000	-8.38133533
-2.44031774	0.64352347	0.00000000	-7.25635770
-1.33902835	1.35334636	0.00000000	0.32116186
-1.23319294	1.35334636	0.00000000	-0.60427669
-1.28611065	1.30042866	0.00000000	-7.08708641
-1.28611065	1.40626406	0.00000000	-6.05022350
&TRANSITION 15->...			
0	0.0 # (r3v8r3v7) 45		
	0.00000000	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	# magnet. mom.
0	0.0 # (r3v9r3v7) 45		
	0.00000000	0.00000000	1.0 # electr. mom.
	0.00000000	0.00000000	# magnet. mom.
45	10898.0 # 917.6 nm, (r7r3v7) 45		
	-0.10189	0.156416	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	0.0813 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -103.27834755
	0.00000000	-0.70208822	0.00000000 1.12318746
	2.11091906	0.04406596	0.00000000 -26.05865041
	1.32524096	1.15754064	0.00000000 -31.24593199
	-0.04178899	0.70146698	0.00000000 52.31711190
	-1.16182154	-1.48163476	0.00000000 9.56897764
	-2.37713566	-0.81881509	0.00000000 -26.44743794
	-2.44031774	0.59060577	0.00000000 -10.57982063
	-1.28611065	1.35334636	0.00000000 -10.07490260
	1.26584879	-1.08237463	0.00000000 15.18847625
	1.37168419	-1.08237463	0.00000000 18.04763715
	1.31876649	-1.13529233	0.00000000 31.60313211
	1.31876649	-1.02945693	0.00000000 38.71825574
	-0.05291770	-0.70208822	0.00000000 -12.65141711
	0.05291770	-0.70208822	0.00000000 -13.88303221
	0.00000000	-0.75500592	0.00000000 13.67911706
	0.00000000	-0.64917052	0.00000000 11.86362695
	2.05800137	0.04406596	0.00000000 -7.63450501
	2.16383676	0.04406596	0.00000000 -4.27648534
	2.11091906	-0.00885174	0.00000000 18.65978606
	2.11091906	0.09698366	0.00000000 18.85357988
	1.27232327	1.15754064	0.00000000 -3.14800045
	1.37815866	1.15754064	0.00000000 -2.84068206
	1.32524096	1.10462294	0.00000000 20.76045058
	1.32524096	1.21045834	0.00000000 16.79734845
	-0.09470669	0.70146698	0.00000000 -25.06083253
	0.01112871	0.70146698	0.00000000 -28.12666325
	-0.04178899	0.64854929	0.00000000 -0.80021902
	-0.04178899	0.75438469	0.00000000 1.46779423
	-1.21473924	-1.48163476	0.00000000 -3.73442749
	-1.10890384	-1.48163476	0.00000000 -3.98620416
	-1.16182154	-1.53455246	0.00000000 -0.22978426
	-1.16182154	-1.42871706	0.00000000 -1.85046407
	-2.43005336	-0.81881509	0.00000000 3.40810914
	-2.32421796	-0.81881509	0.00000000 4.80442626
	-2.37713566	-0.87173279	0.00000000 8.69749541
	-2.37713566	-0.76589740	0.00000000 9.72446712
	-2.49323545	0.59060577	0.00000000 2.72776039
	-2.38740004	0.59060577	0.00000000 2.93016363
	-2.44031774	0.53768808	0.00000000 2.22217004
	-2.44031774	0.64352347	0.00000000 2.68369980
	-1.33902835	1.35334636	0.00000000 -5.18505570
	-1.23319294	1.35334636	0.00000000 -5.45732640
	-1.28611065	1.30042866	0.00000000 10.51383172
	-1.28611065	1.40626406	0.00000000 10.18958523
45	12979.0 # 770.5 nm, (r8r3v7) 45		
	-0.05876	-0.07942	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	0.1614 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -1.84070645
	0.00000000	-0.70208822	0.00000000 58.55692774
	2.11091906	0.04406596	0.00000000 33.13855807
	1.32524096	1.15754064	0.00000000 -12.99345658
	-0.04178899	0.70146698	0.00000000 -36.73293977
	-1.16182154	-1.48163476	0.00000000 -32.76673836
	-2.37713566	-0.81881509	0.00000000 21.38080254
	-2.44031774	0.59060577	0.00000000 2.25971178
	-1.28611065	1.35334636	0.00000000 14.10320557
	1.26584879	-1.08237463	0.00000000 3.48380649
	1.37168419	-1.08237463	0.00000000 2.83494025
	1.31876649	-1.13529233	0.00000000 -2.45703628
	1.31876649	-1.02945693	0.00000000 -1.90014803

-0.05291770	-0.70208822	0.00000000	-22.44158230
0.05291770	-0.70208822	0.00000000	-21.59336415
0.00000000	-0.75500592	0.00000000	-7.32811551
0.00000000	-0.64917052	0.00000000	-7.69267307
2.05800137	0.04406596	0.00000000	-8.13073979
2.16383676	0.04406596	0.00000000	-7.48380138
2.11091906	-0.00885174	0.00000000	-8.76036355
2.11091906	0.09698366	0.00000000	-8.77362752
1.27232327	1.15754064	0.00000000	9.83968159
1.37815866	1.15754064	0.00000000	8.93722512
1.32524096	1.10462294	0.00000000	-3.38358120
1.32524096	1.21045834	0.00000000	-2.44744632
-0.09470669	0.70146698	0.00000000	14.11659357
0.01112871	0.70146698	0.00000000	14.89055850
-0.04178899	0.64854929	0.00000000	5.38446454
-0.04178899	0.75438469	0.00000000	2.56370561
-1.21473924	-1.48163476	0.00000000	5.83474237
-1.10890384	-1.48163476	0.00000000	5.95215438
-1.16182154	-1.53455246	0.00000000	8.63118462
-1.16182154	-1.42871706	0.00000000	12.80093379
-2.43005336	-0.81881509	0.00000000	-13.22702857
-2.32421796	-0.81881509	0.00000000	-16.22528618
-2.37713566	-0.87173279	0.00000000	2.97092846
-2.37713566	-0.76589740	0.00000000	5.02969455
-2.49323545	0.59060577	0.00000000	6.50121894
-2.38740004	0.59060577	0.00000000	7.64005418
-2.44031774	0.53768808	0.00000000	-8.84696507
-2.44031774	0.64352347	0.00000000	-7.65948868
-1.33902835	1.35334636	0.00000000	0.33900418
-1.23319294	1.35334636	0.00000000	-0.63784762
-1.28611065	1.30042866	0.00000000	-7.48081344
-1.28611065	1.40626406	0.00000000	-6.38634702
&TRANSITION 16->...			
0	0.0 # (r3v9;r3v8) 45		
	0.00000000	0.00000000 1.0	# electr. mom.
	0.00000000	0.00000000	# magnet. mom.
45	10898.0 # 917.6 nm, (r7;r3v8) 45		
	-0.0429	0.065859	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	0.0813 # magnet. mom.
	1.31876649	-1.08237463	0.00000000 -43.48562002
	0.00000000	-0.70208822	0.00000000 0.47292104
	2.11091906	0.04406596	0.00000000 -10.97206333
	1.32524096	1.15754064	0.00000000 -13.15618189
	-0.04178899	0.70146698	0.00000000 22.02825764
	-1.16182154	-1.48163476	0.00000000 4.02904322
	-2.37713566	-0.81881509	0.00000000 -11.13576334
	-2.44031774	0.59060577	0.00000000 -4.45466132
	-1.28611065	1.35334636	0.00000000 -4.24206425
	1.26584879	-1.08237463	0.00000000 6.39514789
	1.37168419	-1.08237463	0.00000000 7.59900512
	1.31876649	-1.13529233	0.00000000 13.30658194
	1.31876649	-1.02945693	0.00000000 16.30242347
	-0.05291770	-0.70208822	0.00000000 -5.32691247
	0.05291770	-0.70208822	0.00000000 -5.84548725
	0.00000000	-0.75500592	0.00000000 5.75962823
	0.00000000	-0.64917052	0.00000000 4.99521135
	2.05800137	0.04406596	0.00000000 -3.21452842
	2.16383676	0.04406596	0.00000000 -1.80062541
	2.11091906	-0.00885174	0.00000000 7.85675202
	2.11091906	0.09698366	0.00000000 7.93834942
	1.27232327	1.15754064	0.00000000 -1.32547387
	1.37815866	1.15754064	0.00000000 -1.19607666
	1.32524096	1.10462294	0.00000000 8.74124235
	1.32524096	1.21045834	0.00000000 7.07256777
	-0.09470669	0.70146698	0.00000000 -10.55192949
	0.01112871	0.70146698	0.00000000 -11.84280558
	-0.04178899	0.64854929	0.00000000 -0.33693433
	-0.04178899	0.75438469	0.00000000 0.61801862
	-1.21473924	-1.48163476	0.00000000 -1.57239052
	-1.10890384	-1.48163476	0.00000000 -1.67840175
	-1.16182154	-1.53455246	0.00000000 -0.09675127
	-1.16182154	-1.42871706	0.00000000 -0.77914277
	-2.43005336	-0.81881509	0.00000000 1.43499332
	-2.32421796	-0.81881509	0.00000000 2.02291632
	-2.37713566	-0.87173279	0.00000000 3.66210333
	-2.37713566	-0.76589740	0.00000000 4.09451247
	-2.49323545	0.59060577	0.00000000 1.14853069
	-2.38740004	0.59060577	0.00000000 1.23375311
	-2.44031774	0.53768808	0.00000000 0.93565054
	-2.44031774	0.64352347	0.00000000 1.12997886
	-1.33902835	1.35334636	0.00000000 -2.18318135
	-1.23319294	1.35334636	0.00000000 -2.29782164
	-1.28611065	1.30042866	0.00000000 4.42687651
	-1.28611065	1.40626406	0.00000000 4.29035168
45	12979.0 # 770.5 nm, (r8;r3v8) 45		
	-0.02474	-0.03344	0.00000000 1.0 # electr. mom.
	0.00000000	0.00000000	0.1614 # magnet. mom.

1.31876649	-1.08237463	0.00000000	-0.77503429
0.00000000	-0.70208822	0.00000000	24.65554852
2.11091906	0.04406596	0.00000000	13.95307708
1.32524096	1.15754064	0.00000000	-5.47092909
-0.04178899	0.70146698	0.00000000	-15.46650096
-1.16182154	-1.48163476	0.00000000	-13.79652142
-2.37713566	-0.81881509	0.00000000	9.00244318
-2.44031774	0.59060577	0.00000000	0.95145759
-1.28611065	1.35334636	0.00000000	5.93819182
1.26584879	-1.08237463	0.00000000	1.46686589
1.37168419	-1.08237463	0.00000000	1.19365905
1.31876649	-1.13529233	0.00000000	-1.03454159
1.31876649	-1.02945693	0.00000000	-0.80006233
-0.05291770	-0.70208822	0.00000000	-9.44908729
0.05291770	-0.70208822	0.00000000	-9.09194280
0.00000000	-0.75500592	0.00000000	-3.08552232
0.00000000	-0.64917052	0.00000000	-3.23902024
2.05800137	0.04406596	0.00000000	-3.42346939
2.16383676	0.04406596	0.00000000	-3.15107427
2.11091906	-0.00885174	0.00000000	-3.68857413
2.11091906	0.09698366	0.00000000	-3.69415895
1.27232327	1.15754064	0.00000000	4.14302383
1.37815866	1.15754064	0.00000000	3.76304216
1.32524096	1.10462294	0.00000000	-1.42466577
1.32524096	1.21045834	0.00000000	-1.03050371
-0.09470669	0.70146698	0.00000000	5.94382887
0.01112871	0.70146698	0.00000000	6.26970884
-0.04178899	0.64854929	0.00000000	2.26714297
-0.04178899	0.75438469	0.00000000	1.07945499
-1.21473924	-1.48163476	0.00000000	2.45673363
-1.10890384	-1.48163476	0.00000000	2.50617027
-1.16182154	-1.53455246	0.00000000	3.63418300
-1.16182154	-1.42871706	0.00000000	5.38986686
-2.43005336	-0.81881509	0.00000000	-5.56927519
-2.32421796	-0.81881509	0.00000000	-6.83169944
-2.37713566	-0.87173279	0.00000000	1.25091725
-2.37713566	-0.76589740	0.00000000	2.11776612
-2.49323545	0.59060577	0.00000000	2.73735534
-2.38740004	0.59060577	0.00000000	3.21686492
-2.44031774	0.53768808	0.00000000	-3.72503792
-2.44031774	0.64352347	0.00000000	-3.22504787
-1.33902835	1.35334636	0.00000000	0.14273860
-1.23319294	1.35334636	0.00000000	-0.26856742
-1.28611065	1.30042866	0.00000000	-3.14981618
-1.28611065	1.40626406	0.00000000	-2.68898822
&TRANSITION 17->...			
45	10898.0	# 917.6 nm, (r7r3v9) 45	
-0.05363	0.082324	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.0813	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-54.35702503
0.00000000	-0.70208822	0.00000000	0.59115130
2.11091906	0.04406596	0.00000000	-13.71507916
1.32524096	1.15754064	0.00000000	-16.44522736
-0.04178899	0.70146698	0.00000000	27.53532205
-1.16182154	-1.48163476	0.00000000	5.03630402
-2.37713566	-0.81881509	0.00000000	-13.91970418
-2.44031774	0.59060577	0.00000000	-5.56832665
-1.28611065	1.35334636	0.00000000	-5.30258032
1.26584879	-1.08237463	0.00000000	7.99393487
1.37168419	-1.08237463	0.00000000	9.49875639
1.31876649	-1.13529233	0.00000000	16.63322743
1.31876649	-1.02945693	0.00000000	20.37802934
-0.05291770	-0.70208822	0.00000000	-6.65864058
0.05291770	-0.70208822	0.00000000	-7.30685906
0.00000000	-0.75500592	0.00000000	7.19953529
0.00000000	-0.64917052	0.00000000	6.24401418
2.05800137	0.04406596	0.00000000	-4.01816053
2.16383676	0.04406596	0.00000000	-2.25078176
2.11091906	-0.00885174	0.00000000	9.82094003
2.11091906	0.09698366	0.00000000	9.92293678
1.27232327	1.15754064	0.00000000	-1.65684234
1.37815866	1.15754064	0.00000000	-1.49509582
1.32524096	1.10462294	0.00000000	10.92655294
1.32524096	1.21045834	0.00000000	8.84070971
-0.09470669	0.70146698	0.00000000	-13.18991186
0.01112871	0.70146698	0.00000000	-14.80350697
-0.04178899	0.64854929	0.00000000	-0.42116791
-0.04178899	0.75438469	0.00000000	0.77252328
-1.21473924	-1.48163476	0.00000000	-1.96548816
-1.10890384	-1.48163476	0.00000000	-2.09800219
-1.16182154	-1.53455246	0.00000000	-0.12093908
-1.16182154	-1.42871706	0.00000000	-0.97392846
-2.43005336	-0.81881509	0.00000000	1.79374165
-2.32421796	-0.81881509	0.00000000	2.52864540
-2.37713566	-0.87173279	0.00000000	4.57762916
-2.37713566	-0.76589740	0.00000000	5.11814059
-2.49323545	0.59060577	0.00000000	1.43566336

-2.38740004	0.59060577	0.00000000	1.54219139
-2.44031774	0.53768808	0.00000000	1.16956318
-2.44031774	0.64352347	0.00000000	1.41247358
-1.33902835	1.35334636	0.00000000	-2.72897668
-1.23319294	1.35334636	0.00000000	-2.87227705
-1.28611065	1.30042866	0.00000000	5.53359564
-1.28611065	1.40626406	0.00000000	5.36293959
45 12979.0 # 770.5 nm, (r8r3v9) 45			
-0.03093	-0.0418	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	0.1614	# magnet. mom.
1.31876649	-1.08237463	0.00000000	-0.96879287
0.00000000	-0.70208822	0.00000000	30.81943565
2.11091906	0.04406596	0.00000000	17.44134635
1.32524096	1.15754064	0.00000000	-6.83866136
-0.04178899	0.70146698	0.00000000	-19.33312620
-1.16182154	-1.48163476	0.00000000	-17.24565177
-2.37713566	-0.81881509	0.00000000	11.25305397
-2.44031774	0.59060577	0.00000000	1.18932199
-1.28611065	1.35334636	0.00000000	7.42273978
1.26584879	-1.08237463	0.00000000	1.83358237
1.37168419	-1.08237463	0.00000000	1.49207382
1.31876649	-1.13529233	0.00000000	-1.29317699
1.31876649	-1.02945693	0.00000000	-1.00007791
-0.05291770	-0.70208822	0.00000000	-11.81135911
0.05291770	-0.70208822	0.00000000	-11.36492850
0.00000000	-0.75500592	0.00000000	-3.85690290
0.00000000	-0.64917052	0.00000000	-4.04877530
2.05800137	0.04406596	0.00000000	-4.27933673
2.16383676	0.04406596	0.00000000	-3.93884283
2.11091906	-0.00885174	0.00000000	-4.61071766
2.11091906	0.09698366	0.00000000	-4.61769869
1.27232327	1.15754064	0.00000000	5.17877978
1.37815866	1.15754064	0.00000000	4.70380270
1.32524096	1.10462294	0.00000000	-1.78083221
1.32524096	1.21045834	0.00000000	-1.28812964
-0.09470669	0.70146698	0.00000000	7.42978609
0.01112871	0.70146698	0.00000000	7.83713605
-0.04178899	0.64854929	0.00000000	2.83392871
-0.04178899	0.75438469	0.00000000	1.34931874
-1.21473924	-1.48163476	0.00000000	3.07091704
-1.10890384	-1.48163476	0.00000000	3.13271283
-1.16182154	-1.53455246	0.00000000	4.54272875
-1.16182154	-1.42871706	0.00000000	6.73733357
-2.43005336	-0.81881509	0.00000000	-6.96159398
-2.32421796	-0.81881509	0.00000000	-8.53962431
-2.37713566	-0.87173279	0.00000000	1.56364656
-2.37713566	-0.76589740	0.00000000	2.64720766
-2.49323545	0.59060577	0.00000000	3.42169418
-2.38740004	0.59060577	0.00000000	4.02108115
-2.44031774	0.53768808	0.00000000	-4.65629740
-2.44031774	0.64352347	0.00000000	-4.03130983
-1.33902835	1.35334636	0.00000000	0.17842325
-1.23319294	1.35334636	0.00000000	-0.33570927
-1.28611065	1.30042866	0.00000000	-3.93727023
-1.28611065	1.40626406	0.00000000	-3.36123528
&TRANSITION 18->...			
45 2081.0 # 4805.4 nm, (r8r7) 45			
1.41269163	0.70347288	0.00000000 1.0	# electr. mom.
0.00000000	0.00000000	-0.3555450588E-01	# magnet. mom.
1.31876649	-1.08237463	0.00000000	28.27766678
0.00000000	-0.70208822	0.00000000	-44.77598434
2.11091906	0.04406596	0.00000000	291.43570502
1.32524096	1.15754064	0.00000000	250.46582554
-0.04178899	0.70146698	0.00000000	-284.70533261
-1.16182154	-1.48163476	0.00000000	49.11470827
-2.37713566	-0.81881509	0.00000000	17.32325856
-2.44031774	0.59060577	0.00000000	5.07931306
-1.28611065	1.35334636	0.00000000	250.31193922
1.26584879	-1.08237463	0.00000000	-17.73126048
1.37168419	-1.08237463	0.00000000	-21.08065387
1.31876649	-1.13529233	0.00000000	1.35266342
1.31876649	-1.02945693	0.00000000	9.92360659
-0.05291770	-0.70208822	0.00000000	-54.91585742
0.05291770	-0.70208822	0.00000000	-55.50295042
0.00000000	-0.75500592	0.00000000	69.43104130
0.00000000	-0.64917052	0.00000000	85.99201459
2.05800137	0.04406596	0.00000000	-128.15565874
2.16383676	0.04406596	0.00000000	-114.82075243
2.11091906	-0.00885174	0.00000000	-24.46431936
2.11091906	0.09698366	0.00000000	-24.40568309
1.27232327	1.15754064	0.00000000	-20.39239699
1.37815866	1.15754064	0.00000000	-15.60858571
1.32524096	1.10462294	0.00000000	-112.24425250
1.32524096	1.21045834	0.00000000	-102.84322262
-0.09470669	0.70146698	0.00000000	165.10645330
0.01112871	0.70146698	0.00000000	171.56927914
-0.04178899	0.64854929	0.00000000	-32.38792450

-0.04178899	0.75438469	0.00000000	-18.65421058
-1.21473924	-1.48163476	0.00000000	-0.49403299
-1.10890384	-1.48163476	0.00000000	0.61869638
-1.16182154	-1.53455246	0.00000000	-25.27994438
-1.16182154	-1.42871706	0.00000000	-23.85349363
-2.43005336	-0.81881509	0.00000000	-12.01953317
-2.32421796	-0.81881509	0.00000000	-12.96148906
-2.37713566	-0.87173279	0.00000000	3.85913549
-2.37713566	-0.76589740	0.00000000	3.66723806
-2.49323545	0.59060577	0.00000000	17.96788176
-2.38740004	0.59060577	0.00000000	26.43586075
-2.44031774	0.53768808	0.00000000	-26.38711123
-2.44031774	0.64352347	0.00000000	-22.48966738
-1.33902835	1.35334636	0.00000000	-66.65013235
-1.23319294	1.35334636	0.00000000	-65.80104547
-1.28611065	1.30042866	0.00000000	-65.07230630
-1.28611065	1.40626406	0.00000000	-54.23448562
&PERMANENT MOMENTS			
45 0.0 # 0 nm, Grd. (r1r1) 45			
1.73104840	-1.92708772	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3391.09120171
0.00000000	-0.70208822	0.00000000	468.91078354
2.11091906	0.04406596	0.00000000	909.02213645
1.32524096	1.15754064	0.00000000	-2704.30951382
-0.04178899	0.70146698	0.00000000	514.78806499
-1.16182154	-1.48163476	0.00000000	121.27062902
-2.37713566	-0.81881509	0.00000000	-1042.97614522
-2.44031774	0.59060577	0.00000000	-1948.63292904
-1.28611065	1.35334636	0.00000000	316.62313320
1.26584879	-1.08237463	0.00000000	172.02859627
1.37168419	-1.08237463	0.00000000	233.78238619
1.31876649	-1.13529233	0.00000000	1408.19312971
1.31876649	-1.02945693	0.00000000	1590.90062458
-0.05291770	-0.70208822	0.00000000	163.01598432
0.05291770	-0.70208822	0.00000000	93.43527178
0.00000000	-0.75500592	0.00000000	-279.81228538
0.00000000	-0.64917052	0.00000000	-449.26786296
2.05800137	0.04406596	0.00000000	-281.46868037
2.16383676	0.04406596	0.00000000	-78.52429858
2.11091906	-0.00885174	0.00000000	-279.86375899
2.11091906	0.09698366	0.00000000	-291.75613877
1.27232327	1.15754064	0.00000000	182.00207626
1.37815866	1.15754064	0.00000000	233.68582594
1.32524096	1.10462294	0.00000000	1244.81949494
1.32524096	1.21045834	0.00000000	1058.20231882
-0.09470669	0.70146698	0.00000000	-990.36610550
0.01112871	0.70146698	0.00000000	-1030.32224947
-0.04178899	0.64854929	0.00000000	756.10156478
-0.04178899	0.75438469	0.00000000	753.95467747
-1.21473924	-1.48163476	0.00000000	-313.59839688
-1.10890384	-1.48163476	0.00000000	-309.01455542
-1.16182154	-1.53455246	0.00000000	274.53066826
-1.16182154	-1.42871706	0.00000000	217.89279336
-2.43005336	-0.81881509	0.00000000	396.14576093
-2.32421796	-0.81881509	0.00000000	448.55416094
-2.37713566	-0.87173279	0.00000000	135.10028410
-2.37713566	-0.76589740	0.00000000	63.77974733
-2.49323545	0.59060577	0.00000000	226.44929184
-2.38740004	0.59060577	0.00000000	229.65384322
-2.44031774	0.53768808	0.00000000	764.74581840
-2.44031774	0.64352347	0.00000000	733.45554720
-1.33902835	1.35334636	0.00000000	-650.01981274
-1.23319294	1.35334636	0.00000000	-675.01151530
-1.28611065	1.30042866	0.00000000	514.53465653
-1.28611065	1.40626406	0.00000000	490.45617979
45 0.0 # 0 nm, 1st Exc. (r2v1r2v1) 45			
1.74098131	-1.46780024	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3637.42173509
0.00000000	-0.70208822	0.00000000	1463.58358291
2.11091906	0.04406596	0.00000000	827.34939854
1.32524096	1.15754064	0.00000000	-2731.65780005
-0.04178899	0.70146698	0.00000000	740.99122666
-1.16182154	-1.48163476	0.00000000	-301.58102534
-2.37713566	-0.81881509	0.00000000	-1111.45560634
-2.44031774	0.59060577	0.00000000	-1930.01932901
-1.28611065	1.35334636	0.00000000	171.55611859
1.26584879	-1.08237463	0.00000000	297.61113893
1.37168419	-1.08237463	0.00000000	344.11727213
1.31876649	-1.13529233	0.00000000	1409.80008139
1.31876649	-1.02945693	0.00000000	1602.16176106
-0.05291770	-0.70208822	0.00000000	-157.40184773
0.05291770	-0.70208822	0.00000000	-233.04201086
0.00000000	-0.75500592	0.00000000	-450.63016843
0.00000000	-0.64917052	0.00000000	-632.53874990
2.05800137	0.04406596	0.00000000	-229.52602070
2.16383676	0.04406596	0.00000000	-32.12191310
2.11091906	-0.00885174	0.00000000	-291.64397170

2.11091906	0.09698366	0.00000000	-296.91813470
1.27232327	1.15754064	0.00000000	174.91054651
1.37815866	1.15754064	0.00000000	222.30167765
1.32524096	1.10462294	0.00000000	1270.48523702
1.32524096	1.21045834	0.00000000	1079.24918803
-0.09470669	0.70146698	0.00000000	-1250.82118382
0.01112871	0.70146698	0.00000000	-1293.61212259
-0.04178899	0.64854929	0.00000000	926.89080523
-0.04178899	0.75438469	0.00000000	881.53434384
-1.21473924	-1.48163476	0.00000000	-198.39718790
-1.10890384	-1.48163476	0.00000000	-188.34576802
-1.16182154	-1.53455246	0.00000000	358.63747334
-1.16182154	-1.42871706	0.00000000	322.44546130
-2.43005336	-0.81881509	0.00000000	424.97900290
-2.32421796	-0.81881509	0.00000000	483.69524501
-2.37713566	-0.87173279	0.00000000	139.56833405
-2.37713566	-0.76589740	0.00000000	63.18229838
-2.49323545	0.59060577	0.00000000	224.14676232
-2.38740004	0.59060577	0.00000000	231.94534584
-2.44031774	0.53768808	0.00000000	760.31130835
-2.44031774	0.64352347	0.00000000	719.80761187
-1.33902835	1.35334636	0.00000000	-580.14101088
-1.23319294	1.35334636	0.00000000	-606.45578904
-1.28611065	1.30042866	0.00000000	522.01681008
-1.28611065	1.40626406	0.00000000	490.45334328
45 0.0 # 0 nm, 1st Exc. (r2v2r2v2) 45			
1.74098131	-1.46780024	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3637.42173509
0.00000000	-0.70208822	0.00000000	1463.58358291
2.11091906	0.04406596	0.00000000	827.34939854
1.32524096	1.15754064	0.00000000	-2731.65780005
-0.04178899	0.70146698	0.00000000	740.99122666
-1.16182154	-1.48163476	0.00000000	-301.58102534
-2.37713566	-0.81881509	0.00000000	-1111.45560634
-2.44031774	0.59060577	0.00000000	-1930.01932901
-1.28611065	1.35334636	0.00000000	171.55611859
1.26584879	-1.08237463	0.00000000	297.61113893
1.37168419	-1.08237463	0.00000000	344.11727213
1.31876649	-1.13529233	0.00000000	1409.80008139
1.31876649	-1.02945693	0.00000000	1602.16176106
-0.05291770	-0.70208822	0.00000000	-157.40184773
0.05291770	-0.70208822	0.00000000	-233.04201086
0.00000000	-0.75500592	0.00000000	-450.63016843
0.00000000	-0.64917052	0.00000000	-632.53874990
2.05800137	0.04406596	0.00000000	-229.52602070
2.16383676	0.04406596	0.00000000	-32.12191310
2.11091906	-0.00885174	0.00000000	-291.64397170
2.11091906	0.09698366	0.00000000	-296.91813470
1.27232327	1.15754064	0.00000000	174.91054651
1.37815866	1.15754064	0.00000000	222.30167765
1.32524096	1.10462294	0.00000000	1270.48523702
1.32524096	1.21045834	0.00000000	1079.24918803
-0.09470669	0.70146698	0.00000000	-1250.82118382
0.01112871	0.70146698	0.00000000	-1293.61212259
-0.04178899	0.64854929	0.00000000	926.89080523
-0.04178899	0.75438469	0.00000000	881.53434384
-1.21473924	-1.48163476	0.00000000	-198.39718790
-1.10890384	-1.48163476	0.00000000	-188.34576802
-1.16182154	-1.53455246	0.00000000	358.63747334
-1.16182154	-1.42871706	0.00000000	322.44546130
-2.43005336	-0.81881509	0.00000000	424.97900290
-2.32421796	-0.81881509	0.00000000	483.69524501
-2.37713566	-0.87173279	0.00000000	139.56833405
-2.37713566	-0.76589740	0.00000000	63.18229838
-2.49323545	0.59060577	0.00000000	224.14676232
-2.38740004	0.59060577	0.00000000	231.94534584
-2.44031774	0.53768808	0.00000000	760.31130835
-2.44031774	0.64352347	0.00000000	719.80761187
-1.33902835	1.35334636	0.00000000	-580.14101088
-1.23319294	1.35334636	0.00000000	-606.45578904
-1.28611065	1.30042866	0.00000000	522.01681008
-1.28611065	1.40626406	0.00000000	490.45334328
45 0.0 # 0 nm, 1st Exc. (r2v3r2v3) 45			
1.74098131	-1.46780024	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3637.42173509
0.00000000	-0.70208822	0.00000000	1463.58358291
2.11091906	0.04406596	0.00000000	827.34939854
1.32524096	1.15754064	0.00000000	-2731.65780005
-0.04178899	0.70146698	0.00000000	740.99122666
-1.16182154	-1.48163476	0.00000000	-301.58102534
-2.37713566	-0.81881509	0.00000000	-1111.45560634
-2.44031774	0.59060577	0.00000000	-1930.01932901
-1.28611065	1.35334636	0.00000000	171.55611859
1.26584879	-1.08237463	0.00000000	297.61113893
1.37168419	-1.08237463	0.00000000	344.11727213
1.31876649	-1.13529233	0.00000000	1409.80008139
1.31876649	-1.02945693	0.00000000	1602.16176106

-0.05291770	-0.70208822	0.00000000	-157.40184773
0.05291770	-0.70208822	0.00000000	-233.04201086
0.00000000	-0.75500592	0.00000000	-450.63016843
0.00000000	-0.64917052	0.00000000	-632.53874990
2.05800137	0.04406596	0.00000000	-229.52602070
2.16383676	0.04406596	0.00000000	-32.12191310
2.11091906	-0.00885174	0.00000000	-291.64397170
2.11091906	0.09698366	0.00000000	-296.91813470
1.27232327	1.15754064	0.00000000	174.91054651
1.37815866	1.15754064	0.00000000	222.30167765
1.32524096	1.10462294	0.00000000	1270.48523702
1.32524096	1.21045834	0.00000000	1079.24918803
-0.09470669	0.70146698	0.00000000	-1250.82118382
0.01112871	0.70146698	0.00000000	-1293.61212259
-0.04178899	0.64854929	0.00000000	926.89080523
-0.04178899	0.75438469	0.00000000	881.53434384
-1.21473924	-1.48163476	0.00000000	-198.39718790
-1.10890384	-1.48163476	0.00000000	-188.34576802
-1.16182154	-1.53455246	0.00000000	358.63747334
-1.16182154	-1.42871706	0.00000000	322.44546130
-2.43005336	-0.81881509	0.00000000	424.97900290
-2.32421796	-0.81881509	0.00000000	483.69524501
-2.37713566	-0.87173279	0.00000000	139.56833405
-2.37713566	-0.76589740	0.00000000	63.18229838
-2.49323545	0.59060577	0.00000000	224.14676232
-2.38740004	0.59060577	0.00000000	231.94534584
-2.44031774	0.53768808	0.00000000	760.31130835
-2.44031774	0.64352347	0.00000000	719.80761187
-1.33902835	1.35334636	0.00000000	-580.14101088
-1.23319294	1.35334636	0.00000000	-606.45578904
-1.28611065	1.30042866	0.00000000	522.01681008
-1.28611065	1.40626406	0.00000000	490.45334328
45 0.0 # 0 nm, 1st Exc. (r2v4r2v4) 45			
1.74098131	-1.46780024	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3637.42173509
0.00000000	-0.70208822	0.00000000	1463.58358291
2.11091906	0.04406596	0.00000000	827.34939854
1.32524096	1.15754064	0.00000000	-2731.65780005
-0.04178899	0.70146698	0.00000000	740.99122666
-1.16182154	-1.48163476	0.00000000	-301.58102534
-2.37713566	-0.81881509	0.00000000	-1111.45560634
-2.44031774	0.59060577	0.00000000	-1930.01932901
-1.28611065	1.35334636	0.00000000	171.55611859
1.26584879	-1.08237463	0.00000000	297.61113893
1.37168419	-1.08237463	0.00000000	344.11727213
1.31876649	-1.13529233	0.00000000	1409.80008139
1.31876649	-1.02945693	0.00000000	1602.16176106
-0.05291770	-0.70208822	0.00000000	-157.40184773
0.05291770	-0.70208822	0.00000000	-233.04201086
0.00000000	-0.75500592	0.00000000	-450.63016843
0.00000000	-0.64917052	0.00000000	-632.53874990
2.05800137	0.04406596	0.00000000	-229.52602070
2.16383676	0.04406596	0.00000000	-32.12191310
2.11091906	-0.00885174	0.00000000	-291.64397170
2.11091906	0.09698366	0.00000000	-296.91813470
1.27232327	1.15754064	0.00000000	174.91054651
1.37815866	1.15754064	0.00000000	222.30167765
1.32524096	1.10462294	0.00000000	1270.48523702
1.32524096	1.21045834	0.00000000	1079.24918803
-0.09470669	0.70146698	0.00000000	-1250.82118382
0.01112871	0.70146698	0.00000000	-1293.61212259
-0.04178899	0.64854929	0.00000000	926.89080523
-0.04178899	0.75438469	0.00000000	881.53434384
-1.21473924	-1.48163476	0.00000000	-198.39718790
-1.10890384	-1.48163476	0.00000000	-188.34576802
-1.16182154	-1.53455246	0.00000000	358.63747334
-1.16182154	-1.42871706	0.00000000	322.44546130
-2.43005336	-0.81881509	0.00000000	424.97900290
-2.32421796	-0.81881509	0.00000000	483.69524501
-2.37713566	-0.87173279	0.00000000	139.56833405
-2.37713566	-0.76589740	0.00000000	63.18229838
-2.49323545	0.59060577	0.00000000	224.14676232
-2.38740004	0.59060577	0.00000000	231.94534584
-2.44031774	0.53768808	0.00000000	760.31130835
-2.44031774	0.64352347	0.00000000	719.80761187
-1.33902835	1.35334636	0.00000000	-580.14101088
-1.23319294	1.35334636	0.00000000	-606.45578904
-1.28611065	1.30042866	0.00000000	522.01681008
-1.28611065	1.40626406	0.00000000	490.45334328
45 0.0 # 0 nm, 1st Exc. (r2v5r2v5) 45			
1.74098131	-1.46780024	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3637.42173509
0.00000000	-0.70208822	0.00000000	1463.58358291
2.11091906	0.04406596	0.00000000	827.34939854
1.32524096	1.15754064	0.00000000	-2731.65780005
-0.04178899	0.70146698	0.00000000	740.99122666
-1.16182154	-1.48163476	0.00000000	-301.58102534

-2.37713566	-0.81881509	0.00000000	-1111.45560634
-2.44031774	0.59060577	0.00000000	-1930.01932901
-1.28611065	1.35334636	0.00000000	171.55611859
1.26584879	-1.08237463	0.00000000	297.61113893
1.37168419	-1.08237463	0.00000000	344.11727213
1.31876649	-1.13529233	0.00000000	1409.80008139
1.31876649	-1.02945693	0.00000000	1602.16176106
-0.05291770	-0.70208822	0.00000000	-157.40184773
0.05291770	-0.70208822	0.00000000	-233.04201086
0.00000000	-0.75500592	0.00000000	-450.63016843
0.00000000	-0.64917052	0.00000000	-632.53874990
2.05800137	0.04406596	0.00000000	-229.52602070
2.16383676	0.04406596	0.00000000	-32.12191310
2.11091906	-0.00885174	0.00000000	-291.64397170
2.11091906	0.09698366	0.00000000	-296.91813470
1.27232327	1.15754064	0.00000000	174.91054651
1.37815866	1.15754064	0.00000000	222.30167765
1.32524096	1.10462294	0.00000000	1270.48523702
1.32524096	1.21045834	0.00000000	1079.24918803
-0.09470669	0.70146698	0.00000000	-1250.82118382
0.01112871	0.70146698	0.00000000	-1293.61212259
-0.04178899	0.64854929	0.00000000	926.89080523
-0.04178899	0.75438469	0.00000000	881.53434384
-1.21473924	-1.48163476	0.00000000	-198.39718790
-1.10890384	-1.48163476	0.00000000	-188.34576802
-1.16182154	-1.53455246	0.00000000	358.63747334
-1.16182154	-1.42871706	0.00000000	322.44546130
-2.43005336	-0.81881509	0.00000000	424.97900290
-2.32421796	-0.81881509	0.00000000	483.69524501
-2.37713566	-0.87173279	0.00000000	139.56833405
-2.37713566	-0.76589740	0.00000000	63.18229838
-2.49323545	0.59060577	0.00000000	224.14676232
-2.38740004	0.59060577	0.00000000	231.94534584
-2.44031774	0.53768808	0.00000000	760.31130835
-2.44031774	0.64352347	0.00000000	719.80761187
-1.33902835	1.35334636	0.00000000	-580.14101088
-1.23319294	1.35334636	0.00000000	-606.45578904
-1.28611065	1.30042866	0.00000000	522.01681008
-1.28611065	1.40626406	0.00000000	490.45334328
45 0.0 # 0 nm, 1st Exc. (r2v6r2v6) 45			
1.74098131	-1.46780024	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3637.42173509
0.00000000	-0.70208822	0.00000000	1463.58358291
2.11091906	0.04406596	0.00000000	827.34939854
1.32524096	1.15754064	0.00000000	-2731.65780005
-0.04178899	0.70146698	0.00000000	740.99122666
-1.16182154	-1.48163476	0.00000000	-301.58102534
-2.37713566	-0.81881509	0.00000000	-1111.45560634
-2.44031774	0.59060577	0.00000000	-1930.01932901
-1.28611065	1.35334636	0.00000000	171.55611859
1.26584879	-1.08237463	0.00000000	297.61113893
1.37168419	-1.08237463	0.00000000	344.11727213
1.31876649	-1.13529233	0.00000000	1409.80008139
1.31876649	-1.02945693	0.00000000	1602.16176106
-0.05291770	-0.70208822	0.00000000	-157.40184773
0.05291770	-0.70208822	0.00000000	-233.04201086
0.00000000	-0.75500592	0.00000000	-450.63016843
0.00000000	-0.64917052	0.00000000	-632.53874990
2.05800137	0.04406596	0.00000000	-229.52602070
2.16383676	0.04406596	0.00000000	-32.12191310
2.11091906	-0.00885174	0.00000000	-291.64397170
2.11091906	0.09698366	0.00000000	-296.91813470
1.27232327	1.15754064	0.00000000	174.91054651
1.37815866	1.15754064	0.00000000	222.30167765
1.32524096	1.10462294	0.00000000	1270.48523702
1.32524096	1.21045834	0.00000000	1079.24918803
-0.09470669	0.70146698	0.00000000	-1250.82118382
0.01112871	0.70146698	0.00000000	-1293.61212259
-0.04178899	0.64854929	0.00000000	926.89080523
-0.04178899	0.75438469	0.00000000	881.53434384
-1.21473924	-1.48163476	0.00000000	-198.39718790
-1.10890384	-1.48163476	0.00000000	-188.34576802
-1.16182154	-1.53455246	0.00000000	358.63747334
-1.16182154	-1.42871706	0.00000000	322.44546130
-2.43005336	-0.81881509	0.00000000	424.97900290
-2.32421796	-0.81881509	0.00000000	483.69524501
-2.37713566	-0.87173279	0.00000000	139.56833405
-2.37713566	-0.76589740	0.00000000	63.18229838
-2.49323545	0.59060577	0.00000000	224.14676232
-2.38740004	0.59060577	0.00000000	231.94534584
-2.44031774	0.53768808	0.00000000	760.31130835
-2.44031774	0.64352347	0.00000000	719.80761187
-1.33902835	1.35334636	0.00000000	-580.14101088
-1.23319294	1.35334636	0.00000000	-606.45578904
-1.28611065	1.30042866	0.00000000	522.01681008
-1.28611065	1.40626406	0.00000000	490.45334328
45 0.0 # 0 nm, 1st Exc. (r2v7r2v7) 45			

1.74098131	-1.46780024	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3637.42173509
0.00000000	-0.70208822	0.00000000	1463.58358291
2.11091906	0.04406596	0.00000000	827.34939854
1.32524096	1.15754064	0.00000000	-2731.65780005
-0.04178899	0.70146698	0.00000000	740.99122666
-1.16182154	-1.48163476	0.00000000	-301.58102534
-2.37713566	-0.81881509	0.00000000	-1111.45560634
-2.44031774	0.59060577	0.00000000	-1930.01932901
-1.28611065	1.35334636	0.00000000	171.55611859
1.26584879	-1.08237463	0.00000000	297.61113893
1.37168419	-1.08237463	0.00000000	344.11727213
1.31876649	-1.13529233	0.00000000	1409.80008139
1.31876649	-1.02945693	0.00000000	1602.16176106
-0.05291770	-0.70208822	0.00000000	-157.40184773
0.05291770	-0.70208822	0.00000000	-233.04201086
0.00000000	-0.75500592	0.00000000	-450.63016843
0.00000000	-0.64917052	0.00000000	-632.53874990
2.05800137	0.04406596	0.00000000	-229.52602070
2.16383676	0.04406596	0.00000000	-32.12191310
2.11091906	-0.00885174	0.00000000	-291.64397170
2.11091906	0.09698366	0.00000000	-296.91813470
1.27232327	1.15754064	0.00000000	174.91054651
1.37815866	1.15754064	0.00000000	222.30167765
1.32524096	1.10462294	0.00000000	1270.48523702
1.32524096	1.21045834	0.00000000	1079.24918803
-0.09470669	0.70146698	0.00000000	-1250.82118382
0.01112871	0.70146698	0.00000000	-1293.61212259
-0.04178899	0.64854929	0.00000000	926.89080523
-0.04178899	0.75438469	0.00000000	881.53434384
-1.21473924	-1.48163476	0.00000000	-198.39718790
-1.10890384	-1.48163476	0.00000000	-188.34576802
-1.16182154	-1.53455246	0.00000000	358.63747334
-1.16182154	-1.42871706	0.00000000	322.44546130
-2.43005336	-0.81881509	0.00000000	424.97900290
-2.32421796	-0.81881509	0.00000000	483.69524501
-2.37713566	-0.87173279	0.00000000	139.56833405
-2.37713566	-0.76589740	0.00000000	63.18229838
-2.49323545	0.59060577	0.00000000	224.14676232
-2.38740004	0.59060577	0.00000000	231.94534584
-2.44031774	0.53768808	0.00000000	760.31130835
-2.44031774	0.64352347	0.00000000	719.80761187
-1.33902835	1.35334636	0.00000000	-580.14101088
-1.23319294	1.35334636	0.00000000	-606.45578904
-1.28611065	1.30042866	0.00000000	522.01681008
-1.28611065	1.40626406	0.00000000	490.45334328
45 0.0 # 0 nm, 2nd Exc. (r3vr3v1) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570
1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750
2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616
-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304
-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131

-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 2nd Exc. (r3v2r3v2) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570
1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750
2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616
-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304
-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131
-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 2nd Exc. (r3v3r3v3) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570
1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750
2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616
-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304

-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131
-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 2nd Exc. (r3v4r3v4) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570
1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750
2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616
-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304
-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131
-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 2nd Exc. (r3v5r3v5) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570
1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750
2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616

-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304
-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131
-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 2nd Exc. (r3v6r3v6) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570
1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750
2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616
-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304
-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131
-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 2nd Exc. (r3v7r3v7) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570
1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750

2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616
-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304
-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131
-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 2nd Exc. (r3v8r3v8) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570
1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750
2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616
-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304
-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131
-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 2nd Exc. (r3v9r3v9) 45			
8.02920110	-2.39813299	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3111.09173827
0.00000000	-0.70208822	0.00000000	479.26392014
2.11091906	0.04406596	0.00000000	877.98729350
1.32524096	1.15754064	0.00000000	-2295.52199851
-0.04178899	0.70146698	0.00000000	1036.04327866
-1.16182154	-1.48163476	0.00000000	-465.13678925
-2.37713566	-0.81881509	0.00000000	-1363.24957435
-2.44031774	0.59060577	0.00000000	-2009.00655979
-1.28611065	1.35334636	0.00000000	-544.75823597
1.26584879	-1.08237463	0.00000000	233.39872829
1.37168419	-1.08237463	0.00000000	295.86154570

1.31876649	-1.13529233	0.00000000	1218.70527062
1.31876649	-1.02945693	0.00000000	1377.45140990
-0.05291770	-0.70208822	0.00000000	550.90011254
0.05291770	-0.70208822	0.00000000	473.15773978
0.00000000	-0.75500592	0.00000000	-648.35457547
0.00000000	-0.64917052	0.00000000	-861.59159222
2.05800137	0.04406596	0.00000000	-190.40195750
2.16383676	0.04406596	0.00000000	-0.67199246
2.11091906	-0.00885174	0.00000000	-359.03366035
2.11091906	0.09698366	0.00000000	-349.48574362
1.27232327	1.15754064	0.00000000	-24.63705101
1.37815866	1.15754064	0.00000000	27.97454678
1.32524096	1.10462294	0.00000000	1250.73639888
1.32524096	1.21045834	0.00000000	1057.35734616
-0.09470669	0.70146698	0.00000000	-1494.89930760
0.01112871	0.70146698	0.00000000	-1533.08509838
-0.04178899	0.64854929	0.00000000	1026.80544518
-0.04178899	0.75438469	0.00000000	969.79281115
-1.21473924	-1.48163476	0.00000000	-30.60842189
-1.10890384	-1.48163476	0.00000000	-22.63615646
-1.16182154	-1.53455246	0.00000000	289.05083304
-1.16182154	-1.42871706	0.00000000	218.34096355
-2.43005336	-0.81881509	0.00000000	555.91725211
-2.32421796	-0.81881509	0.00000000	639.48838378
-2.37713566	-0.87173279	0.00000000	125.63083224
-2.37713566	-0.76589740	0.00000000	43.02867206
-2.49323545	0.59060577	0.00000000	243.28207517
-2.38740004	0.59060577	0.00000000	240.17051131
-2.44031774	0.53768808	0.00000000	789.74795342
-2.44031774	0.64352347	0.00000000	740.60692531
-1.33902835	1.35334636	0.00000000	-307.75011542
-1.23319294	1.35334636	0.00000000	-337.84948114
-1.28611065	1.30042866	0.00000000	619.45769813
-1.28611065	1.40626406	0.00000000	569.61210230
45 0.0 # 0 nm, 3rd Exc. (r7r7) 45			
4.06009902	-2.86027426	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3735.26980776
0.00000000	-0.70208822	0.00000000	1000.21899619
2.11091906	0.04406596	0.00000000	824.03983440
1.32524096	1.15754064	0.00000000	-2885.77104710
-0.04178899	0.70146698	0.00000000	1820.91866554
-1.16182154	-1.48163476	0.00000000	612.51893496
-2.37713566	-0.81881509	0.00000000	-1372.98419107
-2.44031774	0.59060577	0.00000000	-2286.38162059
-1.28611065	1.35334636	0.00000000	-555.53556403
1.26584879	-1.08237463	0.00000000	235.86530256
1.37168419	-1.08237463	0.00000000	270.61231200
1.31876649	-1.13529233	0.00000000	1519.72118429
1.31876649	-1.02945693	0.00000000	1726.99447190
-0.05291770	-0.70208822	0.00000000	-91.96350739
0.05291770	-0.70208822	0.00000000	-248.87764190
0.00000000	-0.75500592	0.00000000	-246.97495622
0.00000000	-0.64917052	0.00000000	-415.62653885
2.05800137	0.04406596	0.00000000	-295.92775618
2.16383676	0.04406596	0.00000000	-84.65721523
2.11091906	-0.00885174	0.00000000	-225.16961506
2.11091906	0.09698366	0.00000000	-242.35538971
1.27232327	1.15754064	0.00000000	164.72294237
1.37815866	1.15754064	0.00000000	217.12547059
1.32524096	1.10462294	0.00000000	1368.29667826
1.32524096	1.21045834	0.00000000	1152.66508738
-0.09470669	0.70146698	0.00000000	-1708.54684272
0.01112871	0.70146698	0.00000000	-1699.99710446
-0.04178899	0.64854929	0.00000000	796.96449250
-0.04178899	0.75438469	0.00000000	788.06617502
-1.21473924	-1.48163476	0.00000000	-472.95457982
-1.10890384	-1.48163476	0.00000000	-479.89029490
-1.16182154	-1.53455246	0.00000000	214.61770075
-1.16182154	-1.42871706	0.00000000	110.72380555
-2.43005336	-0.81881509	0.00000000	640.52974651
-2.32421796	-0.81881509	0.00000000	753.91074782
-2.37713566	-0.87173279	0.00000000	42.49710883
-2.37713566	-0.76589740	0.00000000	-62.30006362
-2.49323545	0.59060577	0.00000000	104.16983366
-2.38740004	0.59060577	0.00000000	60.14338723
-2.44031774	0.53768808	0.00000000	1103.08729459
-2.44031774	0.64352347	0.00000000	1022.80817126
-1.33902835	1.35334636	0.00000000	-514.21888330
-1.23319294	1.35334636	0.00000000	-535.85580672
-1.28611065	1.30042866	0.00000000	858.20278666
-1.28611065	1.40626406	0.00000000	751.83729566
45 0.0 # 0 nm, 4th Exc. (r8r8) 45			
1.23654057	-2.24688502	0.00000000	1.0 # electr. mom.
1.31876649	-1.08237463	0.00000000	-3550.64407416
0.00000000	-0.70208822	0.00000000	1234.44807946
2.11091906	0.04406596	0.00000000	717.53197382
1.32524096	1.15754064	0.00000000	-3067.91716526

-0.04178899	0.70146698	0.00000000	1162.94488867
-1.16182154	-1.48163476	0.00000000	-34.40206075
-2.37713566	-0.81881509	0.00000000	-1345.43180938
-2.44031774	0.59060577	0.00000000	-2142.44037595
-1.28611065	1.35334636	0.00000000	210.36958426
1.26584879	-1.08237463	0.00000000	242.17297877
1.37168419	-1.08237463	0.00000000	296.95675973
1.31876649	-1.13529233	0.00000000	1417.38380640
1.31876649	-1.02945693	0.00000000	1609.56253411
-0.05291770	-0.70208822	0.00000000	111.90882499
0.05291770	-0.70208822	0.00000000	37.12837075
0.00000000	-0.75500592	0.00000000	-582.29201381
0.00000000	-0.64917052	0.00000000	-811.63249661
2.05800137	0.04406596	0.00000000	-246.28606858
2.16383676	0.04406596	0.00000000	-40.95144758
2.11091906	-0.00885174	0.00000000	-224.17681834
2.11091906	0.09698366	0.00000000	-230.18326795
1.27232327	1.15754064	0.00000000	160.42357920
1.37815866	1.15754064	0.00000000	211.92395875
1.32524096	1.10462294	0.00000000	1470.66927360
1.32524096	1.21045834	0.00000000	1242.41696155
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0.01112871	0.70146698	0.00000000	-1806.49369709
-0.04178899	0.64854929	0.00000000	1241.90016058
-0.04178899	0.75438469	0.00000000	1163.89848806
-1.21473924	-1.48163476	0.00000000	-272.36063506
-1.10890384	-1.48163476	0.00000000	-260.48221810
-1.16182154	-1.53455246	0.00000000	306.04728485
-1.16182154	-1.42871706	0.00000000	252.34295702
-2.43005336	-0.81881509	0.00000000	472.98802286
-2.32421796	-0.81881509	0.00000000	538.65442522
-2.37713566	-0.87173279	0.00000000	205.10762606
-2.37713566	-0.76589740	0.00000000	128.95936008
-2.49323545	0.59060577	0.00000000	193.34497531
-2.38740004	0.59060577	0.00000000	193.25080762
-2.44031774	0.53768808	0.00000000	904.14281366
-2.44031774	0.64352347	0.00000000	857.83232472
-1.33902835	1.35334636	0.00000000	-687.05049379
-1.23319294	1.35334636	0.00000000	-714.87745920
-1.28611065	1.30042866	0.00000000	622.11296040
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