

Supplemental Material

Fourier-transform microwave spectroscopy of
the ClSO radical

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Table S1. Observed transition frequencies of $^{35}\text{ClSO}$ (in MHz)

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
2	0	2	1.5	0.0	1	0	1	0.5	1.0	17115.601	-0.001	0.319
			1.5	1.0				0.5	1.0	17101.166	0.000	0.749
			1.5	1.0				0.5	2.0	17127.208	0.001	0.120
			1.5	2.0				0.5	1.0	17082.259	-0.001	0.651
			1.5	2.0				0.5	2.0	17108.301	0.000	0.655
			1.5	3.0				0.5	2.0	17106.305	0.000	2.103
			1.5	1.0				1.5	0.0	17175.288	0.001	0.046
			1.5	1.0				1.5	2.0	17190.001	-0.002	0.124
			1.5	2.0				1.5	1.0	17165.948	0.000	0.154
			1.5	2.0				1.5	2.0	17171.097	0.001	0.197
			1.5	2.0				1.5	3.0	17153.381	0.001	0.085
			1.5	3.0				1.5	2.0	17169.107	0.007	0.043
			1.5	3.0				1.5	3.0	17151.384	0.000	0.293
			2.5	1.0				1.5	0.0	17061.001	0.001	0.536
			2.5	1.0				1.5	1.0	17070.568	0.000	0.461
			2.5	2.0				1.5	1.0	17062.131	0.000	1.100
			2.5	2.0				1.5	2.0	17067.279	0.000	0.590
			2.5	3.0				1.5	2.0	17065.392	0.000	1.915
			2.5	3.0				1.5	3.0	17047.674	-0.001	0.525
			2.5	4.0				1.5	3.0	17066.419	0.001	3.142
2	1	1	1.5	0.0	1	1	0	0.5	1.0	17528.995	0.000	0.134
			1.5	1.0				0.5	1.0	17526.214	-0.002	0.335
			1.5	1.0				0.5	2.0	17489.313	-0.001	0.069
			1.5	2.0				0.5	1.0	17525.211	-0.003	0.334
			1.5	2.0				0.5	2.0	17488.309	-0.003	0.339
			1.5	3.0				0.5	2.0	17498.739	0.000	0.925
			2.5	1.0				1.5	0.0	17694.547	0.000	0.249
			2.5	1.0				1.5	1.0	17689.197	0.001	0.220
			2.5	2.0				1.5	1.0	17684.185	0.000	0.522
			2.5	2.0				1.5	2.0	17679.985	-0.001	0.283
			2.5	3.0				1.5	2.0	17677.198	0.001	0.922
			2.5	3.0				1.5	3.0	17685.834	0.000	0.227
			2.5	4.0				1.5	3.0	17690.696	0.001	1.477
2	1	2	1.5	0.0	1	1	1	0.5	1.0	16382.026	-0.003	0.134
			1.5	1.0				0.5	1.0	16369.371	-0.002	0.337

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
2	1	2	1.5	1.0	1	1	1	0.5	2.0	16387.179	-0.002	0.067
			1.5	2.0				0.5	1.0	16350.282	-0.003	0.340
			1.5	2.0				0.5	2.0	16368.089	-0.003	0.339
			1.5	3.0				0.5	2.0	16355.097	-0.003	0.943
			2.5	1.0				1.5	0.0	16590.768	0.003	0.249
			2.5	2.0				1.5	1.0	16582.139	0.002	0.521
			2.5	3.0				1.5	2.0	16576.834	0.002	0.920
			2.5	4.0				1.5	3.0	16592.272	0.001	1.489
3	0	3	2.5	1.0	2	0	2	1.5	0.0	25619.284	0.001	0.393
			2.5	1.0				1.5	1.0	25633.719	0.000	0.365
			2.5	2.0				1.5	1.0	25616.700	0.000	0.816
			2.5	2.0				1.5	2.0	25635.607	0.001	0.469
			2.5	3.0				1.5	2.0	25621.182	-0.001	1.464
			2.5	3.0				1.5	3.0	25623.179	0.000	0.348
			2.5	4.0				1.5	3.0	25625.075	0.000	2.387
			2.5	2.0				2.5	2.0	25739.421	-0.003	0.058
			3.5	2.0				2.5	1.0	25584.795	0.002	1.142
			3.5	2.0				2.5	2.0	25593.232	0.001	0.268
			3.5	3.0				2.5	2.0	25584.888	0.000	1.627
			3.5	3.0				2.5	3.0	25586.776	0.001	0.355
			3.5	4.0				2.5	3.0	25587.027	0.001	2.279
			3.5	5.0				2.5	4.0	25587.474	0.001	3.132
			2.5	1.0				1.5	0.0	24736.938	-0.002	0.225
			2.5	1.0				1.5	1.0	24749.593	-0.003	0.203
3	1	3	2.5	2.0				1.5	1.0	24731.165	-0.003	0.473
			2.5	2.0				1.5	2.0	24750.254	-0.002	0.262
			2.5	3.0				1.5	2.0	24731.872	-0.003	0.842
			2.5	3.0				1.5	3.0	24744.865	-0.002	0.207
			2.5	4.0				1.5	3.0	24737.638	-0.003	1.355
			3.5	2.0				2.5	1.0	24813.722	0.001	0.648
			3.5	3.0				2.5	2.0	24811.844	0.001	0.924
			3.5	3.0				2.5	3.0	24808.975	0.001	0.205
			3.5	4.0				2.5	3.0	24812.879	0.002	1.296
			3.5	4.0				2.5	4.0	24797.257	0.003	0.163
			3.5	5.0				2.5	4.0	24817.588	0.001	1.783
			2.5	1.0				1.5	0.0	26450.415	-0.003	0.219

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
3	1	2	2.5	2.0	2	1	1	1.5	1.0	26445.977	0.001	0.457
			2.5	2.0				1.5	2.0	26446.980	0.002	0.259
			2.5	3.0				1.5	2.0	26443.730	0.001	0.812
			2.5	4.0				1.5	3.0	26443.259	-0.002	1.309
			3.5	2.0				2.5	1.0	26475.843	0.002	0.631
			3.5	3.0				2.5	3.0	26475.587	0.003	0.194
			3.5	4.0				2.5	3.0	26472.806	0.002	1.265
			3.5	4.0				2.5	4.0	26467.945	0.002	0.149
			3.5	5.0				2.5	4.0	26477.062	0.003	1.732
3	2	1	2.5	3.0	2	2	0	1.5	2.0	25453.508 ^b	-0.014	0.129
			2.5	4.0				1.5	3.0	25454.327 ^b	-0.014	0.206
			3.5	3.0				2.5	2.0	25769.174 ^b	0.001	0.145
			3.5	4.0				2.5	3.0	25765.325 ^b	0.001	0.204
			3.5	5.0				2.5	4.0	25780.841 ^b	0.001	0.279
3	2	2	2.5	4.0	2	2	1	1.5	3.0	25419.556 ^b	-0.011	0.207
			3.5	4.0				2.5	3.0	25733.292 ^b	0.002	0.204
			3.5	5.0				2.5	4.0	25748.973 ^b	0.004	0.279
2	2	1	2.5	1.0	3	1	2	3.5	2.0	57957.374 ^a	-0.003	0.051
			2.5	2.0				3.5	3.0	57976.687 ^a	-0.005	0.073
			2.5	3.0				3.5	4.0	57984.927 ^a	0.000	0.103
			2.5	4.0				3.5	5.0	57962.019 ^a	-0.007	0.141
1	1	1	0.5	1.0	0	0	0	0.5	1.0	37218.790	-0.003	0.172
			0.5	1.0				0.5	2.0	37212.346	0.001	0.830
			0.5	2.0				0.5	1.0	37200.984	-0.001	0.826
			0.5	2.0				0.5	2.0	37194.537	-0.001	0.841
			1.5	0.0				0.5	1.0	36607.000	0.002	0.333
			1.5	1.0				0.5	1.0	36613.444	0.000	0.827
			1.5	2.0				0.5	1.0	36621.621	0.003	0.841
			1.5	2.0				0.5	2.0	36615.166	-0.005	0.824
			1.5	3.0				0.5	2.0	36615.356	0.001	2.332
1	1	0	0.5	1.0	1	0	1	0.5	1.0	29182.308	0.001	0.190
			0.5	1.0				0.5	2.0	29208.349	0.001	0.647
			0.5	2.0				0.5	1.0	29219.210	0.001	0.690
			0.5	2.0				0.5	2.0	29245.251	0.001	0.777
			0.5	1.0				1.5	1.0	29265.996	0.001	0.139
			0.5	1.0				1.5	2.0	29271.145	0.002	0.262

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
1	1	0	0.5	2.0	1	0	1	1.5	1.0	29302.899	0.002	0.081
			0.5	2.0				1.5	2.0	29308.047	0.002	0.104
			0.5	2.0				1.5	3.0	29290.331	0.002	0.531
			1.5	0.0				1.5	1.0	28629.908	0.000	0.403
			1.5	1.0				1.5	0.0	28625.691	0.001	0.369
			1.5	1.0				1.5	1.0	28635.259	0.000	0.188
			1.5	1.0				1.5	2.0	28640.407	0.000	0.551
			1.5	2.0				1.5	1.0	28639.457	0.000	0.507
			1.5	2.0				1.5	2.0	28644.605	-0.001	0.666
			1.5	2.0				1.5	3.0	28626.892	0.003	0.493
			1.5	3.0				1.5	2.0	28635.969	0.000	0.611
			1.5	3.0				1.5	3.0	28618.253	0.000	2.057
1	1	1	0.5	1.0	2	0	2	1.5	0.0	11494.653	-0.002	0.053
			0.5	1.0				1.5	1.0	11509.088	-0.003	0.133
			0.5	1.0				1.5	2.0	11528.001	0.003	0.132
			0.5	2.0				1.5	1.0	11491.281	-0.002	0.027
			0.5	2.0				1.5	2.0	11510.189	-0.001	0.134
			0.5	2.0				1.5	3.0	11512.185	-0.001	0.369
			1.5	2.0				1.5	1.0	10911.916	0.000	0.014
			1.5	2.0				1.5	2.0	10930.823	0.000	0.019
			1.5	2.0				1.5	3.0	10932.819	0.000	0.020
			1.5	3.0				1.5	3.0	10933.003	-0.001	0.041
			1.5	0.0				2.5	1.0	11011.584	0.001	0.100
			1.5	1.0				2.5	1.0	11018.026	-0.003	0.086
			1.5	1.0				2.5	2.0	11026.467	0.001	0.207
			1.5	2.0				2.5	2.0	11034.641	0.001	0.112
			1.5	2.0				2.5	3.0	11036.528	0.000	0.357
			1.5	3.0				2.5	3.0	11036.712	0.000	0.097
			1.5	3.0				2.5	4.0	11017.975	0.006	0.587
2	1	1	1.5	0.0	2	0	2	1.5	1.0	29610.135	0.000	0.311
			1.5	1.0				1.5	0.0	29592.920	-0.001	0.308
			1.5	1.0				1.5	2.0	29626.263	0.000	0.494
			1.5	2.0				1.5	1.0	29606.352	-0.002	0.491
			1.5	2.0				1.5	2.0	29625.259	-0.002	0.595
			1.5	2.0				1.5	3.0	29627.256	-0.001	0.403
			1.5	3.0				1.5	2.0	29635.689	0.001	0.428

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
2	1	1	1.5	3.0	2	0	2	1.5	3.0	29637.685	0.001	1.717
			2.5	1.0				1.5	0.0	29125.165	0.000	0.032
			2.5	1.0				1.5	1.0	29139.600	0.000	0.022
			2.5	2.0				1.5	1.0	29134.588	0.000	0.078
			2.5	2.0				1.5	2.0	29153.495	0.000	0.037
			2.5	3.0				1.5	2.0	29150.706	-0.001	0.134
			2.5	3.0				1.5	3.0	29152.705	0.002	0.062
			2.5	4.0				1.5	3.0	29157.565	0.001	0.182
			2.5	1.0				2.5	1.0	29253.885	-0.002	0.672
			2.5	1.0				2.5	2.0	29262.324	0.000	0.281
			2.5	2.0				2.5	1.0	29248.876	0.001	0.274
			2.5	2.0				2.5	2.0	29257.313	0.001	0.915
			2.5	2.0				2.5	3.0	29259.199	-0.001	0.372
			2.5	3.0				2.5	2.0	29254.523	-0.001	0.374
			2.5	3.0				2.5	3.0	29256.410	-0.001	1.489
			2.5	3.0				2.5	4.0	29237.668	0.000	0.297
			2.5	4.0				2.5	3.0	29261.272	-0.001	0.322
			2.5	4.0				2.5	4.0	29242.529	-0.001	2.523
3	1	2	2.5	1.0	3	0	3	2.5	1.0	30426.837	0.003	0.453
			2.5	1.0				2.5	2.0	30443.852	-0.001	0.198
			2.5	2.0				2.5	1.0	30419.613	-0.001	0.196
			2.5	2.0				2.5	2.0	30436.631	-0.002	0.619
			2.5	2.0				2.5	3.0	30451.056	0.000	0.265
			2.5	3.0				2.5	2.0	30433.382	-0.002	0.266
			2.5	3.0				2.5	3.0	30447.807	0.000	1.041
			2.5	3.0				2.5	4.0	30445.910	0.000	0.202
			2.5	4.0				2.5	3.0	30457.765	-0.001	0.210
			2.5	4.0				2.5	4.0	30455.869	-0.001	1.743
			3.5	2.0				3.5	2.0	30144.933	-0.001	0.953
			3.5	2.0				3.5	3.0	30153.280	0.002	0.156
			3.5	3.0				3.5	2.0	30136.879	0.002	0.156
			3.5	3.0				3.5	3.0	30145.222	0.001	1.185
			3.5	4.0				3.5	3.0	30142.441	0.001	0.211
			3.5	4.0				3.5	4.0	30142.190	0.000	1.615
			3.5	4.0				3.5	5.0	30123.000	0.001	0.160
			3.5	5.0				3.5	4.0	30151.308	0.002	0.169

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
3	1	2	3.5	5.0	3	0	3	3.5	5.0	30132.118	0.002	2.270
3	2	1	2.5	1.0	4	1	4	3.5	2.0	54746.628 ^a	-0.008	0.056
			2.5	2.0				3.5	3.0	54766.862 ^a	0.007	0.079
			2.5	3.0				3.5	4.0	54783.200 ^a	0.010	0.112
			2.5	4.0				3.5	4.0	54782.433 ^a	0.000	0.013
			2.5	4.0				3.5	5.0	54786.787 ^a	0.008	0.153
			3.5	2.0				4.5	3.0	54003.129 ^a	0.006	0.091
			3.5	3.0				4.5	3.0	54004.402 ^a	-0.004	0.011
			3.5	3.0				4.5	4.0	54008.950 ^a	-0.003	0.116
			3.5	4.0				4.5	5.0	54005.414 ^a	0.003	0.149
			3.5	5.0				4.5	6.0	53984.682 ^a	-0.001	0.189
4	1	3	3.5	2.0	4	0	4	3.5	2.0	31599.614	0.002	0.569
			3.5	3.0				3.5	3.0	31608.295	-0.001	0.707
			3.5	3.0				3.5	4.0	31620.795	-0.004	0.126
			3.5	4.0				3.5	4.0	31617.345	-0.001	0.970
			3.5	5.0				3.5	4.0	31627.565	-0.004	0.099
			3.5	5.0				3.5	5.0	31624.563	-0.002	1.363
			4.5	3.0				4.5	3.0	31341.618	0.001	0.857
			4.5	4.0				4.5	4.0	31340.521	0.000	1.018
			4.5	5.0				4.5	5.0	31336.641	0.000	1.279
			4.5	6.0				4.5	6.0	31327.909	0.000	1.651
3	2	2	3.5	5.0	4	1	3	4.5	6.0	48430.777	0.001	0.161
5	0	5	4.5	3.0	4	1	4	3.5	2.0	16684.136	0.005	0.160
			4.5	3.0				3.5	3.0	16705.083	0.002	0.019
			4.5	4.0				3.5	3.0	16686.356	0.004	0.205
			4.5	5.0				3.5	4.0	16692.033	0.003	0.263
			4.5	6.0				3.5	5.0	16700.002	0.004	0.333
			5.5	4.0				4.5	3.0	16743.437	-0.002	0.221
			5.5	4.0				4.5	4.0	16747.981	-0.005	0.015
			5.5	5.0				4.5	4.0	16740.145	-0.003	0.269
			5.5	6.0				4.5	5.0	16737.680	-0.003	0.326
			5.5	7.0				4.5	6.0	16735.164	-0.001	0.395
5	1	4	4.5	3.0	5	0	5	4.5	3.0	33128.297	-0.004	0.448
			4.5	4.0				4.5	4.0	33136.534	-0.003	0.533
			4.5	5.0				4.5	5.0	33144.734	-0.004	0.672
			4.5	6.0				4.5	6.0	33151.529	-0.004	0.867

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
5	1	4	5.5	4.0	5	0	5	5.5	4.0	32873.241	0.001	0.597
			5.5	5.0				5.5	5.0	32871.278	0.001	0.690
			5.5	6.0				5.5	6.0	32866.896	-0.001	0.829
			5.5	7.0				5.5	7.0	32858.732	0.001	1.015
6	0	6	5.5	4.0	5	1	5	4.5	3.0	26406.654	0.003	0.112
			5.5	5.0				4.5	4.0	26409.627	0.003	0.136
			5.5	6.0				4.5	5.0	26414.891	0.002	0.166
			5.5	7.0				4.5	6.0	26421.460	0.003	0.201
			6.5	5.0				5.5	4.0	26419.896	-0.004	0.143
			6.5	6.0				5.5	5.0	26416.986	-0.005	0.168
			6.5	7.0				5.5	6.0	26414.380	-0.004	0.198
			6.5	8.0				5.5	7.0	26411.151	-0.003	0.232
5	2	4	5.5	4.0	6	1	5	6.5	5.0	28454.129	0.002	0.041
			5.5	5.0				6.5	6.0	28459.901	0.000	0.048
			5.5	6.0				6.5	7.0	28463.169	0.001	0.056
			5.5	7.0				6.5	8.0	28463.031	-0.002	0.066
6	1	5	5.5	4.0	6	0	6	5.5	4.0	35035.379	-0.002	0.274
			5.5	5.0				5.5	5.0	35043.447	-0.004	0.317
			5.5	6.0				5.5	6.0	35051.310	0.008	0.382
			5.5	7.0				5.5	7.0	35057.980	-0.002	0.467
			6.5	5.0				6.5	5.0	34771.974	0.004	0.342
			6.5	6.0				6.5	6.0	34769.393	0.003	0.388
			6.5	7.0				6.5	7.0	34764.621	0.005	0.452
			6.5	8.0				6.5	8.0	34756.650	0.000	0.535
6	2	4	5.5	4.0	7	1	7	6.5	5.0	34695.042	-0.012	0.025
			6.5	5.0				7.5	6.0	34189.493	0.001	0.031
			6.5	6.0				7.5	7.0	34188.029	0.000	0.035
			6.5	8.0				7.5	9.0	34170.744	-0.001	0.046

^aObserved by double resonance. Weight of 0.25 were given.

^bWeak spectral lines. Weight of 0.1 were given.

Table S2. Observed transition frequencies of $^{37}\text{ClSO}$ (in MHz)

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
1	1	0	0.5	1.0	1	0	1	0.5	1.0	29210.709	0.000	0.184
			0.5	1.0				0.5	2.0	29232.277	0.001	0.664
			0.5	2.0				0.5	1.0	29241.386	0.001	0.700
			0.5	2.0				0.5	2.0	29262.953	0.001	0.773
			0.5	1.0				1.5	0.0	29281.364	0.001	0.072
			0.5	1.0				1.5	1.0	29288.656	0.001	0.146
			0.5	1.0				1.5	2.0	29292.638	0.002	0.249
			0.5	2.0				1.5	1.0	29319.333	0.002	0.073
			0.5	2.0				1.5	2.0	29323.314	0.002	0.116
			0.5	2.0				1.5	3.0	29309.101	0.001	0.529
			1.5	0.0				0.5	1.0	28575.603	0.000	0.038
			1.5	1.0				0.5	1.0	28579.785	-0.001	0.137
			1.5	2.0				0.5	1.0	28583.051	-0.001	0.234
			1.5	2.0				0.5	2.0	28604.618	-0.001	0.251
			1.5	3.0				0.5	2.0	28597.660	-0.002	0.399
			1.5	0.0				1.5	1.0	28653.550	0.000	0.400
			1.5	1.0				1.5	0.0	28650.440	0.000	0.370
			1.5	1.0				1.5	1.0	28657.732	0.000	0.183
			1.5	1.0				1.5	2.0	28661.714	0.001	0.560
			1.5	2.0				1.5	1.0	28660.998	0.000	0.522
			1.5	2.0				1.5	2.0	28664.979	0.000	0.682
			1.5	2.0				1.5	3.0	28650.766	-0.001	0.498
			1.5	3.0				1.5	2.0	28658.021	-0.001	0.597
			1.5	3.0				1.5	3.0	28643.808	-0.002	2.065
1	1	1	0.5	1.0	2	0	2	1.5	0.0	12017.815	0.000	0.054
			0.5	1.0				1.5	1.0	12029.428	-0.002	0.135
			0.5	1.0				1.5	2.0	12044.714	0.000	0.134
			0.5	2.0				1.5	2.0	12029.910	0.000	0.136
			0.5	2.0				1.5	3.0	12032.031	0.000	0.375
			1.5	1.0				2.5	1.0	11538.621	0.001	0.088
			1.5	1.0				2.5	2.0	11545.173	0.001	0.209
			1.5	2.0				2.5	2.0	11551.787	0.000	0.114
			1.5	2.0				2.5	3.0	11553.052	0.000	0.363
			1.5	3.0				2.5	4.0	11538.297	-0.002	0.595
2	1	1	1.5	0.0	2	0	2	1.5	1.0	29604.503	-0.001	0.313

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
2	1	1	1.5	1.0	2	0	2	1.5	0.0	29590.731	0.000	0.310
			1.5	1.0				1.5	1.0	29602.344	-0.002	0.117
			1.5	1.0				1.5	2.0	29617.629	-0.001	0.498
			1.5	2.0				1.5	1.0	29601.689	-0.001	0.495
			1.5	2.0				1.5	2.0	29616.973	-0.001	0.604
			1.5	2.0				1.5	3.0	29619.094	-0.001	0.412
			1.5	3.0				1.5	2.0	29625.493	-0.002	0.432
			1.5	3.0				1.5	3.0	29627.616	0.000	1.734
			1.5	1.0				2.5	2.0	29718.590	0.000	0.064
			1.5	2.0				2.5	2.0	29717.935	0.000	0.038
			1.5	2.0				2.5	3.0	29719.199	-0.001	0.144
			2.5	1.0				1.5	0.0	29126.179	0.001	0.032
			2.5	1.0				1.5	1.0	29137.792	-0.001	0.023
			2.5	2.0				1.5	1.0	29133.804	0.000	0.076
			2.5	2.0				1.5	2.0	29149.090	0.002	0.037
			2.5	3.0				1.5	2.0	29146.863	0.000	0.132
			2.5	3.0				1.5	3.0	29148.983	-0.001	0.056
			2.5	4.0				1.5	3.0	29152.861	-0.001	0.184
			2.5	1.0				2.5	1.0	29247.487	0.002	0.678
			2.5	2.0				2.5	1.0	29243.496	0.000	0.279
			2.5	2.0				2.5	2.0	29250.049	0.001	0.924
			2.5	3.0				2.5	2.0	29247.825	0.001	0.380
			2.5	3.0				2.5	3.0	29249.088	0.000	1.511
			2.5	3.0				2.5	4.0	29234.017	-0.001	0.301
			2.5	4.0				2.5	3.0	29252.966	0.000	0.323
			2.5	4.0				2.5	4.0	29237.895	0.000	2.552
3	1	2	2.5	1.0	3	0	3	2.5	1.0	30375.439	-0.001	0.463
			2.5	1.0				2.5	2.0	30389.103	-0.002	0.201
			2.5	2.0				2.5	1.0	30369.735	0.000	0.200
			2.5	2.0				2.5	2.0	30383.399	0.000	0.634
			2.5	2.0				2.5	3.0	30395.106	0.000	0.270
			2.5	3.0				2.5	2.0	30380.877	0.000	0.271
			2.5	3.0				2.5	3.0	30392.583	0.000	1.065
			2.5	3.0				2.5	4.0	30391.528	-0.001	0.208
			2.5	4.0				2.5	3.0	30400.564	-0.001	0.215
			2.5	4.0				2.5	4.0	30399.509	-0.001	1.781

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
3	1	2	3.5	2.0	3	0	3	3.5	2.0	30092.042	0.002	0.973
			3.5	2.0				3.5	3.0	30098.486	0.002	0.160
			3.5	3.0				3.5	2.0	30085.659	0.001	0.159
			3.5	3.0				3.5	3.0	30092.103	0.002	1.210
			3.5	3.0				3.5	4.0	30091.670	0.001	0.212
			3.5	4.0				3.5	3.0	30089.916	0.003	0.215
			3.5	4.0				3.5	4.0	30089.483	0.002	1.652
			3.5	4.0				3.5	5.0	30074.051	0.000	0.164
			3.5	5.0				3.5	4.0	30096.764	0.002	0.172
			3.5	5.0				3.5	5.0	30081.334	0.002	2.320
4	1	3	3.5	2.0	4	0	4	3.5	2.0	31482.543	-0.002	0.590
			3.5	3.0				3.5	3.0	31489.609	-0.001	0.733
			3.5	3.0				3.5	4.0	31499.786	-0.002	0.131
			3.5	4.0				3.5	3.0	31486.891	-0.001	0.131
			3.5	4.0				3.5	4.0	31497.068	-0.002	1.005
			3.5	5.0				3.5	4.0	31505.203	-0.003	0.102
			3.5	5.0				3.5	5.0	31503.227	-0.003	1.412
			4.5	3.0				4.5	3.0	31224.478	0.001	0.886
			4.5	4.0				4.5	4.0	31223.438	0.002	1.054
			4.5	5.0				4.5	5.0	31220.160	0.003	1.324
3	2	2	4.5	6.0				4.5	6.0	31213.063	0.003	1.708
			2.5	1.0	4	1	3	3.5	2.0	50194.516 ^a	0.001	0.049
			2.5	2.0				3.5	3.0	50201.073	-0.004	0.070
			2.5	3.0				3.5	4.0	50202.761	-0.003	0.099
			2.5	4.0				3.5	5.0	50193.646	0.003	0.135
			3.5	2.0				4.5	3.0	49617.065	-0.002	0.081
			3.5	3.0				4.5	4.0	49625.476 ^a	-0.021	0.104
			3.5	4.0				4.5	5.0	49628.680	0.002	0.133
			3.5	5.0				4.5	6.0	49621.671 ^a	0.005	0.168
5	0	5	4.5	3.0	4	1	4	3.5	2.0	15358.310	0.002	0.167
			4.5	4.0				3.5	3.0	15360.220	0.001	0.214
			4.5	5.0				3.5	4.0	15364.955	0.002	0.275
			4.5	6.0				3.5	5.0	15371.600	0.003	0.348
			5.5	4.0				4.5	3.0	15417.849	-0.003	0.231
			5.5	5.0				4.5	4.0	15415.124	-0.002	0.280
			5.5	6.0				4.5	5.0	15413.021	-0.002	0.341

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
5	0	5	5.5	7.0	4	1	4	4.5	6.0	15410.891	0.000	0.412
6	0	6	5.5	5.0	5	1	5	4.5	4.0	24802.245	0.001	0.145
			5.5	6.0				4.5	5.0	24806.654	0.002	0.177
			5.5	7.0				4.5	6.0	24812.172	0.004	0.214
			6.5	6.0				5.5	5.0	24810.917	-0.005	0.179
			6.5	7.0				5.5	6.0	24808.692	-0.001	0.211
			6.5	8.0				5.5	7.0	24805.984	-0.001	0.247
6	1	5	6.5	6.0	6	0	6	6.5	6.0	34459.274	0.000	0.417
			6.5	7.0				6.5	7.0	34455.295	0.000	0.486
			6.5	8.0				6.5	8.0	34448.816	0.001	0.574
7	0	7	6.5	6.0	6	1	6	5.5	5.0	34374.794	0.000	0.080
			6.5	7.0				5.5	6.0	34378.839	0.002	0.094
			6.5	8.0				5.5	7.0	34383.564	0.002	0.110
			7.5	6.0				6.5	5.0	34352.279	-0.003	0.083
			7.5	7.0				6.5	6.0	34350.015	-0.001	0.095
			7.5	9.0				6.5	8.0	34344.861	-0.001	0.125
2	0	2	1.5	1.0	1	0	1	0.5	1.0	16633.671	0.000	0.749
			1.5	2.0				0.5	1.0	16618.385	-0.002	0.665
			1.5	2.0				0.5	2.0	16639.954	0.000	0.671
			1.5	3.0				0.5	2.0	16637.834	0.001	2.099
			2.5	1.0				1.5	1.0	16601.926	0.001	0.464
			2.5	2.0				1.5	1.0	16595.373	0.000	1.105
			2.5	2.0				1.5	2.0	16599.354	0.000	0.598
			2.5	3.0				1.5	2.0	16598.089	-0.001	1.930
			2.5	4.0				1.5	3.0	16598.948	0.000	3.154
2	1	1	1.5	0.0	1	1	0	0.5	1.0	17027.466	0.000	0.134
			1.5	1.0				0.5	1.0	17025.306	-0.002	0.336
			1.5	2.0				0.5	1.0	17024.646	-0.007	0.335
			1.5	2.0				0.5	2.0	16993.974	-0.003	0.339
			1.5	3.0				0.5	2.0	17002.497	-0.001	0.929
			2.5	1.0				1.5	0.0	17195.859	-0.002	0.249
			2.5	1.0				1.5	1.0	17191.682	0.004	0.221
			2.5	2.0				1.5	1.0	17187.690	0.001	0.523
			2.5	2.0				1.5	2.0	17184.426	0.003	0.285
			2.5	3.0				1.5	3.0	17189.156	0.000	0.228
			2.5	4.0				1.5	3.0	17193.034	0.001	1.482

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
2	1	2	1.5	1.0	1	1	1	0.5	1.0	15928.807	-0.002	0.338
			1.5	2.0				0.5	1.0	15913.188	-0.002	0.340
			1.5	2.0				0.5	2.0	15927.991	-0.002	0.340
			1.5	3.0				0.5	2.0	15916.892	-0.002	0.946
			2.5	2.0				1.5	1.0	16143.175	0.002	0.522
			2.5	2.0				1.5	2.0	16136.560	0.001	0.292
			2.5	3.0				1.5	2.0	16139.126	0.001	0.924
			2.5	3.0				1.5	3.0	16138.810	0.003	0.239
			2.5	4.0				1.5	3.0	16151.499	0.002	1.493
3	0	3	2.5	1.0	2	0	2	1.5	0.0	24920.602	-0.002	0.398
			2.5	1.0				1.5	1.0	24932.219	0.000	0.367
			2.5	2.0				1.5	1.0	24918.555	0.000	0.829
			2.5	2.0				1.5	2.0	24933.838	-0.001	0.472
			2.5	3.0				1.5	2.0	24922.132	0.000	1.485
			2.5	3.0				1.5	3.0	24924.252	-0.001	0.357
			2.5	4.0				1.5	3.0	24925.307	-0.001	2.414
			3.5	2.0				2.5	1.0	24886.286	0.003	1.155
			3.5	2.0				2.5	2.0	24892.835	0.000	0.272
			3.5	3.0				2.5	2.0	24886.391	0.000	1.646
			3.5	3.0				2.5	3.0	24887.654	-0.002	0.359
			3.5	4.0				2.5	3.0	24888.089	0.001	2.306
			3.5	4.0				2.5	4.0	24873.019	0.002	0.286
			3.5	5.0				2.5	4.0	24888.448	0.000	3.167
			2.5	1.0				1.5	0.0	24078.251	-0.002	0.227
3	1	3	2.5	2.0				1.5	1.0	24073.602	-0.003	0.478
			2.5	2.0				1.5	2.0	24089.224	0.000	0.264
			2.5	3.0				1.5	2.0	24074.155	-0.002	0.850
			2.5	3.0				1.5	3.0	24085.255	-0.001	0.209
			2.5	4.0				1.5	3.0	24078.788	-0.002	1.368
			3.5	2.0				2.5	1.0	24155.213	0.001	0.655
			3.5	2.0				2.5	2.0	24156.735	0.002	0.156
			3.5	3.0				2.5	2.0	24153.798	0.002	0.933
			3.5	3.0				2.5	3.0	24151.231	0.001	0.207
			3.5	4.0				2.5	3.0	24154.678	0.002	1.310
			3.5	4.0				2.5	4.0	24141.987	0.000	0.163
			3.5	5.0				2.5	4.0	24158.444	0.002	1.800

N'	K_a'	K_c'	J'	F'	N''	K_a''	K_c''	J''	F''	Obs.	Obs.-Calc.	Int.
3	1	2	2.5	2.0	2	1	1	1.5	1.0	25699.608	0.000	0.462
			2.5	3.0				1.5	2.0	25697.741	0.000	0.822
			2.5	4.0				1.5	3.0	25697.200	-0.002	1.324
			3.5	2.0				2.5	1.0	25730.838	0.000	0.638
			3.5	3.0				2.5	2.0	25728.448	0.003	0.911
			3.5	4.0				2.5	3.0	25728.482	0.001	1.280
			3.5	5.0				2.5	4.0	25731.887	0.003	1.752

^aObserved by double resonance. Weight of 0.1 were given.