

The pivotal Role of Electronics in Preferred Alkene over Alkyne Ni-Carboryne Insertions and Absolute Regioselectivities

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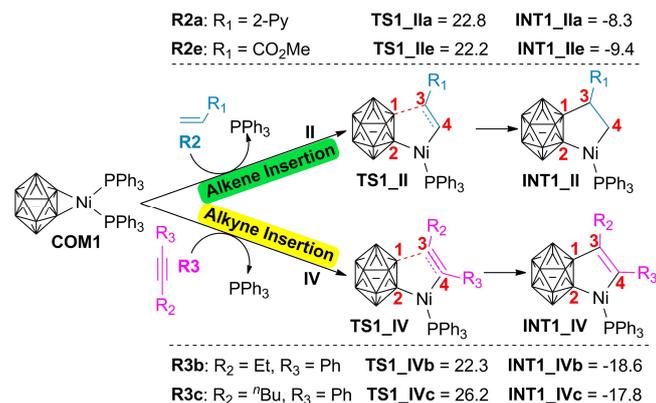


Figure S1 Competing insertion of alkene/alkyne into the Ni-C bond of activated **COM1**.

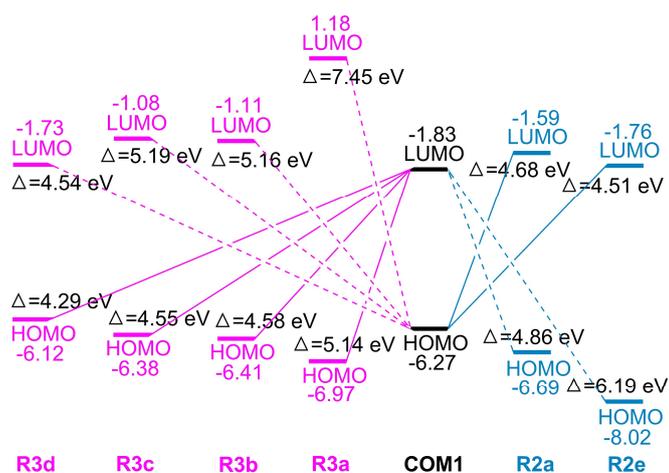


Figure S2 Frontier orbital graphics obtained at IDSCRF-B3LYP/DZVP//DZVP level in THF solvent.

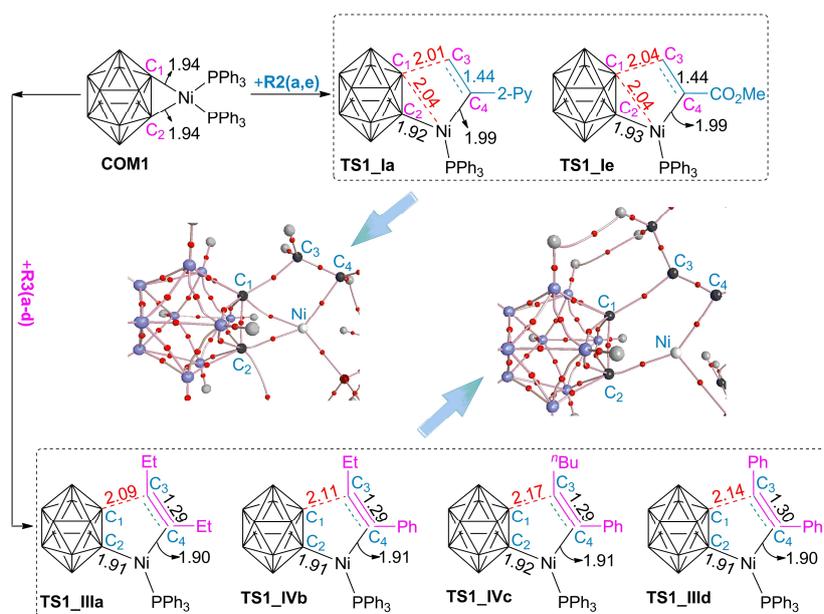


Figure S3 Molecular graphics and key optimized bond lengths (Å) of selected stationary points involved in the alkene/alkyne insertion process.

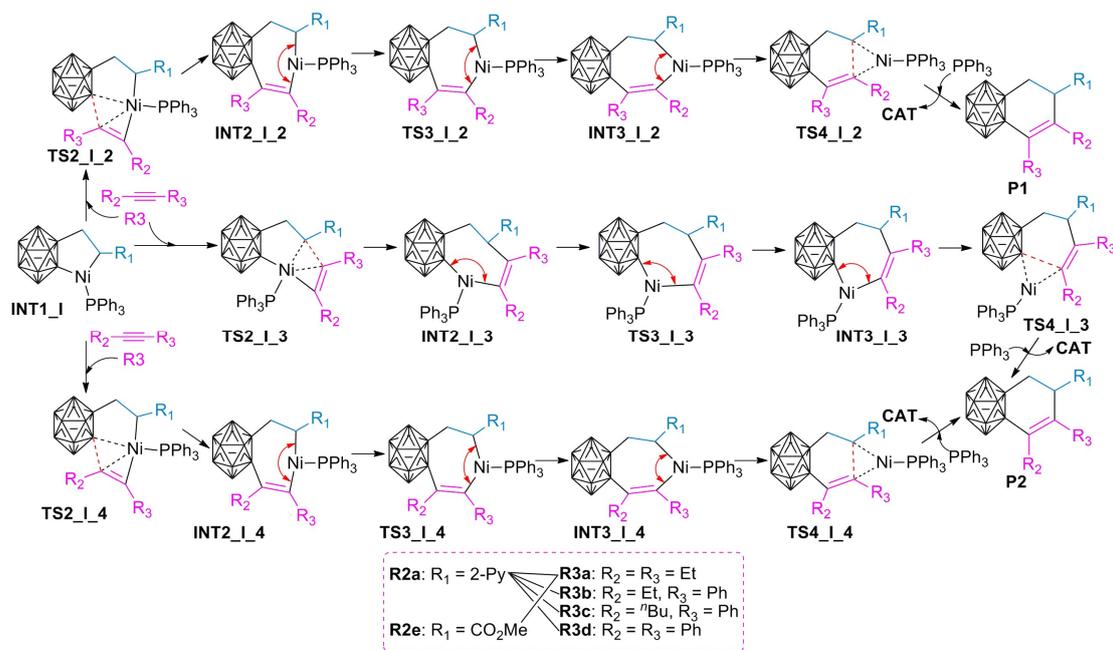


Figure S4 Other plausible reaction channels directing the formation of **P1** and **P2** from **INT1_I** in reactions **a-e**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

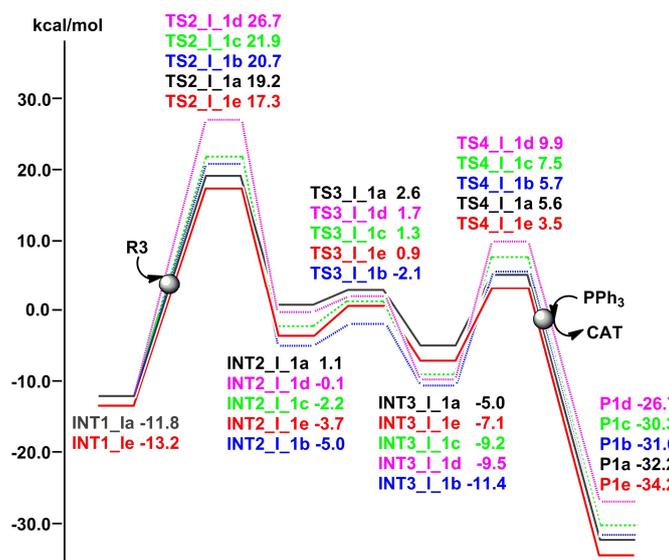


Figure S5 Relative free energies (kcal·mol⁻¹) for the optimal reaction channel in reactions **a-e** (path **I_1**, after **INT1_I**), obtained at IDSCRF-B3LYP/DZVP level in THF solvent at 383K.

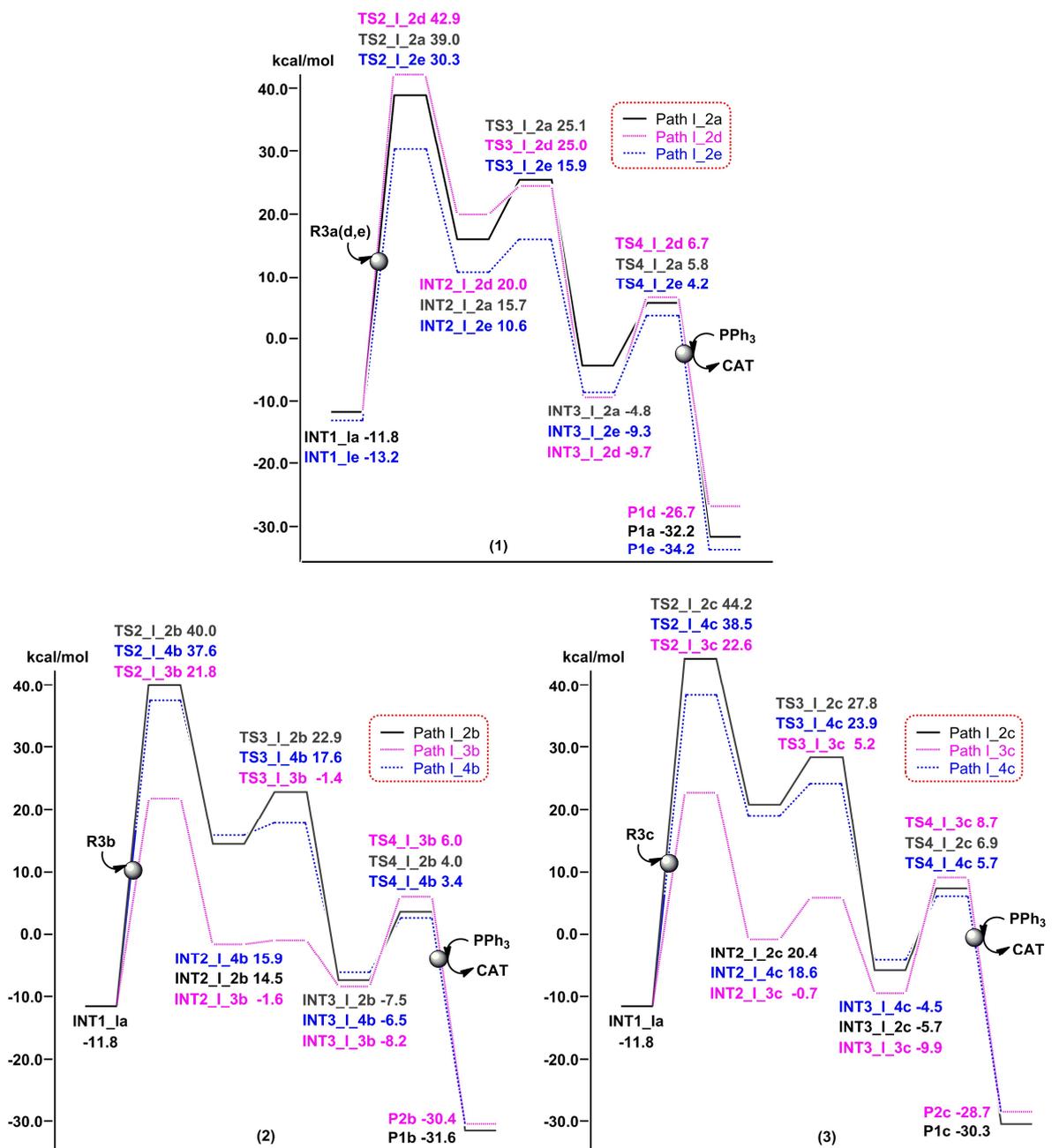


Figure S6 Relative free energies ($\text{kcal}\cdot\text{mol}^{-1}$) for paths **I**₂₋₄ in reactions **a-e**, obtained at IDSCRF-B3LYP/DZVP level in THF solvent at 383 K.

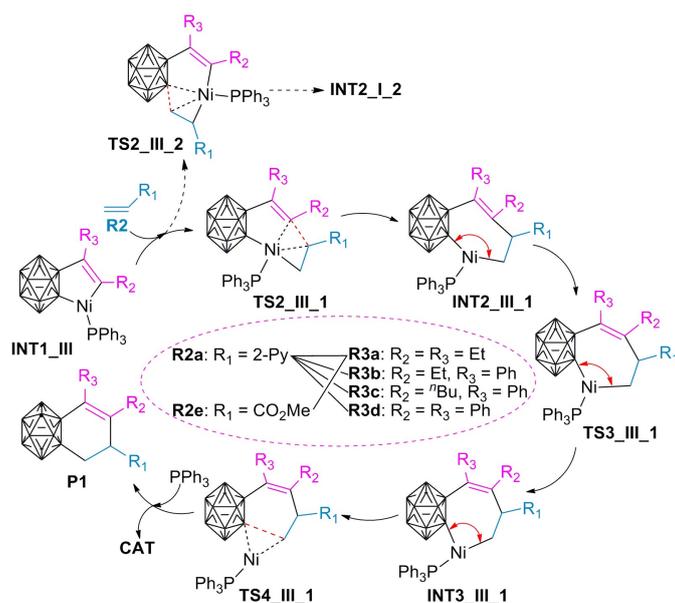


Figure S7 Plausible reaction channels directing the formation of **P1** from **INT1_III** in reactions **a-e**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

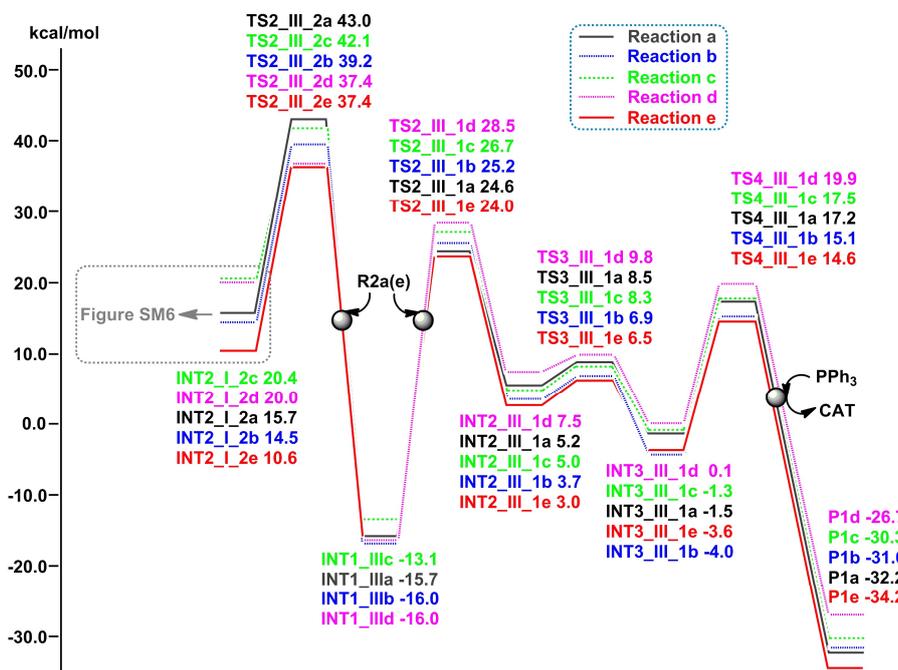


Figure S8 Relative free energies ($\text{kcal}\cdot\text{mol}^{-1}$) for paths **III_1-2** (derived from **INT1_III**) in reactions **a-e**, obtained at IDSCRF-B3LYP/DZVP level in THF solvent at 383 K.

Table S1 NBO charge distributions on C₃ and C₄ in TS1, TS1_III and TS1_IV for reactions a-e.

	TS1_Ia	TS1_Ie	TS1_IIIa	TS1_IIIb	TS1_IVb	TS1_IIIc	TS1_IVc	TS1_IIId
C3	-0.292	-0.284	0.047	0.024	0.079	0.024	0.088	0.050
C4	-0.364	-0.435	-0.114	-0.081	-0.135	-0.074	-0.128	-0.110

Table S2 Calculated free energy barriers ($\Delta G_{\text{rel}}(\text{TS1})$ and $\Delta G_{\text{rel}}(\text{TS2})$, 383K, kcal·mol⁻¹), rate constants (k , L·mol⁻¹·s⁻¹), half-lives ($t_{1/2}$, h) and end-product identity for reactions a-e, determined at the IDSCRF-B3LYP/DZVP level in THF solvent.

Reactions	TS1	$\Delta G_{\text{rel}}(\text{TS1})$	k	$t_{1/2}$	TS2	$\Delta G_{\text{rel}}(\text{TS1})$	k	$t_{1/2}$	Product	Yields(%)
a	TS1_Ia	15.9	6.749x10 ³	4.116x10 ⁻⁸	TS2_I_1a	31.0	1.633x10 ⁻⁵	1.701x10 ¹	P1a	57
	TS1_IIa	22.8	7.798x10 ⁻¹	1.562x10 ⁻⁴	TS2_I_2a	50.8	8.217x10 ⁻¹⁷	3.381x10 ¹²		
	TS1_IIIa	24.1	1.413x10 ⁻¹	1.966x10 ⁻³	TS2_III_1a	40.3	8.057x10 ⁻¹¹	3.448x10 ⁶		
					TS2_III_2a	58.7	2.552x10 ⁻²¹	1.089x10 ¹⁷		
					TS2_I_1b	32.5	2.275x10 ⁻⁶	1.221x10 ²		
b	TS1_Ib	15.9	6.749x10 ³	4.116x10 ⁻⁸	TS2_I_2b	51.8	2.208x10 ⁻¹⁷	1.258x10 ¹³	P1b	39
	TS1_IIb	22.8	7.798x10 ⁻¹	1.562x10 ⁻⁴	TS2_I_3b	33.6	5.362x10 ⁻⁷	5.181x10 ²		
	TS1_IIIb	21.8	2.901x10 ⁰	9.575x10 ⁻⁵	TS2_I_4b	49.4	5.171x10 ⁻¹⁶	5.372x10 ¹¹		
					TS2_III_1b	41.2	2.470x10 ⁻¹¹	1.125x10 ⁷		
					TS2_III_2b	55.2	2.535x10 ⁻¹⁹	1.096x10 ¹⁵		
c	TS1_Ic	15.9	6.749x10 ³	4.116x10 ⁻⁸	TS2_I_1c	33.7	4.702x10 ⁻⁷	5.908x10 ²	P1c	31
	TS1_IIc	22.8	7.798x10 ⁻¹	1.562x10 ⁻⁴	TS2_I_2c	56.0	8.861x10 ⁻²⁰	3.135x10 ¹⁵		
	TS1_IIIc	25.6	1.969x10 ⁻²	1.411x10 ⁻²	TS2_I_3c	34.4	1.874x10 ⁻⁷	1.482x10 ³		
					TS2_I_4c	50.3	1.585x10 ⁻¹⁶	1.753x10 ¹²		
					TS2_III_1c	39.8	1.554x10 ⁻¹⁰	1.787x10 ⁶		
d	TS1_IVc	26.2	8.951x10 ⁻³	3.103x10 ⁻²	TS2_III_2c	55.2	2.535x10 ⁻¹⁹	1.096x10 ¹⁵	P1d	--
	TS1_Id	15.9	6.749x10 ³	4.116x10 ⁻⁸	TS2_I_1d	38.5	8.576x10 ⁻¹⁰	3.239x10 ⁵		
	TS1_IId	22.8	7.798x10 ⁻¹	1.562x10 ⁻⁴	TS2_I_2d	54.7	4.890x10 ⁻¹⁹	5.681x10 ¹⁴		
	TS1_IIId	26.9	3.568x10 ⁻³	7.785x10 ⁻²	TS2_III_1d	44.5	3.233x10 ⁻¹³	8.592x10 ⁸		
					TS2_III_2d	53.4	2.698x10 ⁻¹⁸	1.029x10 ¹⁴		
e	TS1_Ie	14.2	6.299x10 ⁴	4.410x10 ⁻⁹	TS2_I_1e	30.5	3.149x10 ⁻⁵	8.820x10 ⁰	P1e	59
	TS1_IIe	22.2	1.715x10 ⁰	1.619x10 ⁻⁴	TS2_I_2e	43.5	1.203x10 ⁻¹²	2.309x10 ⁸		
	TS1_IIIe	24.1	1.413x10 ⁻¹	1.966x10 ⁻³	TS2_III_1e	39.7	1.772x10 ⁻¹⁰	1.567x10 ⁶		
				TS2_III_2e	53.1	4.002x10 ⁻¹⁸	6.941x10 ¹³			

Table S3 The optimized Cartesian coordinates (Å) for active COM1 generation process, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	Cartesian coordinates				Species	Cartesian coordinates			
R	6	0.005458	0.028304	0.005971	TS1	6	-2.382839	-0.974664	0.992987
	6	0.012885	0.048967	1.634657		6	-1.759685	-0.092390	-0.253243
	5	1.524684	-0.019715	0.814147		5	-3.257827	-0.903689	-0.460580
	5	-1.247460	0.887799	0.815275		5	-1.482339	0.412628	1.360078
	5	-0.430553	1.570615	2.248700		5	-1.928687	1.569778	0.102243
	5	1.270770	1.013654	2.248006		5	-3.023530	0.757740	-1.023433
	5	0.858731	2.634905	-0.112014		5	-4.323326	0.878846	1.558103
	5	1.257587	0.976976	-0.643101		5	-4.068962	-0.837287	1.139835
	5	-0.443738	1.533936	-0.642407		5	-2.958691	-0.017345	2.277066
	5	2.077210	1.665070	0.790248		5	-4.517978	0.318892	-0.142514
	5	0.866897	2.657627	1.678686		5	-3.685119	1.871687	0.213622
	5	-0.696719	2.573169	0.791377		5	-2.708322	1.656535	1.709147
	1	2.111370	-1.044415	0.824501		1	-3.304763	-1.861359	-1.154085
	1	-2.326532	0.408423	0.826309		1	-0.389592	0.284339	1.806863
	1	-1.036047	1.607006	3.264613		1	-1.093940	2.311192	-0.299919
	1	1.781303	0.684678	3.263466		1	-2.940451	0.952740	-2.191025
	1	1.165890	3.574002	-0.768866		1	-5.250157	1.213482	2.223165
	1	1.758879	0.622307	-1.654508		1	-4.684965	-1.784289	1.499422
	1	-1.058465	1.544612	-1.653359		1	-2.840252	-0.423668	3.384651
	1	3.237591	1.908807	0.781870		1	-5.572123	0.258363	-0.687735
1	1.179930	3.613061	2.308655	1	-4.154371	2.922897	-0.085516		
1	-1.488328	3.455926	0.783791	1	-2.477707	2.539695	2.470419		
1	-0.299788	-0.903551	-0.455194	1	-1.883471	-1.916840	1.187394		
1	-0.288032	-0.870847	2.122092	1	-0.672213	-0.580359	-0.863688		
CAT1	6	-1.269178	4.884550	-1.753270	6	0.419021	-1.299243	-1.729475	

Species	Cartesian coordinates			Species	Cartesian coordinates		
	1	-0.245064	4.857264 -2.181724		1	-0.033202	-1.004376 -2.692373
	1	-1.749575	5.732187 -2.287304		1	1.510065	-1.169245 -1.911028
	6	-1.135469	5.291938 -0.269827		6	0.167388	-2.801346 -1.503044
	1	-2.134684	5.359108 0.196799		1	0.665778	-3.129938 -0.576749
	1	-0.618372	4.495278 0.293468		1	-0.906812	-2.968872 -1.328032
	6	-0.401425	6.618762 0.028444		6	0.610286	-3.738528 -2.642678
	1	0.608844	6.567104 -0.403148		1	0.107163	-3.430440 -3.569756
	1	-0.914515	7.432795 -0.504304		1	1.686073	-3.600913 -2.821760
	6	-0.302460	6.967369 1.522561		6	0.322527	-5.222941 -2.373233
	1	0.224445	7.915134 1.691693		1	0.649216	-5.857467 -3.205775
	1	-1.298767	7.058437 1.974384		1	0.839528	-5.570149 -1.469835
	1	0.235838	6.187024 2.075977		1	-0.750347	-5.397728 -2.225020
	3	-2.316082	3.085735 -2.182344		3	1.278677	0.087888 -0.292670
	6	-2.384675	0.819345 -4.291644		6	2.246293	-1.718820 1.954791
	8	-1.669207	1.521951 -3.235379		8	2.410700	-0.483817 1.194632
	6	-0.234581	1.392626 -3.443019		6	3.631644	0.195644 1.612341
	6	-0.074804	1.003724 -4.911030		6	4.412942	-0.831834 2.430382
	6	-1.314952	0.123738 -5.142831		6	3.286813	-1.657458 3.073883
	1	-3.087228	0.120543 -3.828006		1	1.215478	-1.759730 2.316183
	1	-2.949868	1.559869 -4.868961		1	2.423012	-2.561641 1.277358
	1	0.220973	2.348721 -3.174970		1	4.153001	0.534704 0.713442
	1	0.147167	0.609701 -2.775026		1	3.351544	1.066373 2.216903
	1	-0.107948	1.895035 -5.546963		1	5.023371	-1.460264 1.773169
	1	0.865334	0.478706 -5.101445		1	5.071841	-0.357932 3.162743
	1	-1.607015	0.058378 -6.194364		1	3.609110	-2.653685 3.387831
	1	-1.133663	-0.892107 -4.775923		1	2.880509	-1.136392 3.947231
	6	-4.664304	1.370058 -1.095462		6	2.002236	3.079662 -0.193385
	8	-4.167607	2.643772 -1.596888		8	1.794344	1.855208 -0.956081
	6	-4.977690	3.730882 -1.067429		6	1.681460	2.169258 -2.378271
	6	-5.689443	3.144848 0.149949		6	2.136449	3.622202 -2.514549
	6	-5.931153	1.691749 -0.292866		6	1.715688	4.225427 -1.164166
	1	-4.851244	0.711389 -1.948773		1	1.333402	3.060328 0.671287
	1	-3.883821	0.924686 -0.468155		1	3.041622	3.093795 0.155427
	1	-4.303529	4.560631 -0.843543		1	2.301673	1.457756 -2.929524
	1	-5.692267	4.043671 -1.839745		1	0.635423	2.037359 -2.674863
	1	-5.034380	3.178493 1.027263		1	3.223640	3.674634 -2.636653
	1	-6.612885	3.679860 0.388295		1	1.670545	4.118080 -3.370147
	1	-6.071452	1.003062 0.544609		1	2.271166	5.130721 -0.905041
	1	-6.816849	1.632708 -0.934360		1	0.647401	4.465303 -1.167248
INT1	6	-2.759581	0.649806 -1.370634	TS2	6	-1.769803	-0.995925 1.725050
	6	-3.848293	0.325118 -0.141590		6	-0.199519	-0.315418 1.513855
	5	-2.883064	-0.934658 -0.811693		5	-1.360941	0.454053 2.491764
	5	-3.026079	1.837384 -0.205535		5	-0.438136	-2.008942 1.574550
	5	-3.159700	0.945371 1.306866		5	0.899259	-1.232835 2.448591
	5	-3.070824	-0.770629 0.931546		5	0.317269	0.319079 3.026517
	5	-0.533328	0.416854 0.219317		5	-1.202200	-1.751171 4.350986
	5	-1.297920	-0.212999 -1.263405		5	-2.314910	-0.796578 3.324462
	5	-1.387491	1.528147 -0.882638		5	-1.725702	-2.357584 2.751802
	5	-1.455434	-1.128897 0.253540		5	-0.995883	0.029345 4.197435
	5	-1.626871	0.061657 1.587065		5	0.432621	-1.056982 4.163005
	5	-1.601785	1.709692 0.874044		5	-0.021498	-2.534926 3.243785
	1	-3.390394	-1.764184 -1.493121		1	-1.865420	1.468394 2.122198
	1	-3.625157	2.822147 -0.489487		1	-0.280846	-2.661670 0.590584
	1	-3.896684	1.352351 2.147774		1	2.013626	-1.355897 2.039422
	1	-3.745763	-1.560678 1.511048		1	1.013828	1.286053 3.025090
	1	0.651689	0.454184 0.328559		1	-1.567188	-2.265040 5.364286
	1	-0.778583	-0.574223 -2.267828		1	-3.475025	-0.604022 3.511340
	1	-0.927677	2.323684 -1.634169		1	-2.471086	-3.260944 2.539787
	1	-0.938331	-2.191795 0.392026		1	-1.213619	0.790499 5.089200
	1	-1.227333	-0.158485 2.687300		1	1.245452	-1.076427 5.036267
	1	-1.188184	2.663573 1.453191		1	0.465188	-3.602966 3.455573
	1	-3.199127	0.838785 -2.342393		1	-2.482280	-0.701989 0.585626
	3	-5.962526	0.278912 -0.369212		3	1.381986	-0.246426 -0.132922
	6	-8.069877	2.110146 0.791973		6	2.599936	-3.178874 -0.445965
	8	-7.155695	1.832690 -0.310720		8	2.549525	-1.776760 -0.846213
	6	-7.015338	3.018738 -1.148912		6	3.624156	-1.497152 -1.787740
	6	-7.645299	4.162006 -0.353283		6	4.215719	-2.855795 -2.169633
	6	-8.742533	3.438687 0.445137		6	3.967607	-3.686331 -0.900312
	1	-8.767130	1.271539 0.873162		1	2.441128	-3.225804 0.632216
	1	-7.483854	2.180066 1.715893		1	1.783401	-3.711461 -0.948360
	1	-5.951903	3.161714 -1.356633		1	3.203616	-0.951411 -2.637986
	1	-7.547125	2.835910 -2.090266		1	4.361513	-0.857962 -1.289243
	1	-6.908881	4.608116 0.323335		1	3.674719	-3.285652 -3.019527
	1	-8.035367	4.948773 -1.004335		1	5.272677	-2.781739 -2.439209
	1	-9.055080	3.984816 1.338976		1	3.965326	-4.763983 -1.084473
	1	-9.625029	3.269598 -0.181047		1	4.728386	-3.468801 -0.142827
	6	-8.298255	-1.419577 -1.299312		6	3.109673	2.355632 -0.755930
	8	-7.025364	-1.336795 -0.591916		8	2.817419	1.175540 0.039943
	6	-6.594756	-2.672240 -0.187253		6	3.802820	1.047805 1.111036
	6	-7.487111	-3.640917 -0.962149		6	4.898893	2.065536 0.792303
	6	-8.799195	-2.848406 -1.083794		6	4.119398	3.167057 0.056170
	1	-8.963501	-0.653090 -0.893535		1	3.531517	2.034406 -1.716996
	1	-8.115362	-1.208634 -2.359508		1	2.171484	2.884980 -0.940020
	1	-5.531169	-2.765588 -0.415820		1	3.301261	1.264620 2.059256
	1	-6.738770	-2.764121 0.895609		1	4.153626	0.012474 1.124880
	1	-7.065585	-3.841394 -1.952985		1	5.399320	2.423530 1.695877
	1	-7.607332	-4.594234 -0.440808		1	5.655211	1.625821 0.133056
	1	-9.433714	-3.188461 -1.906511		1	3.601960	3.814490 0.772066

Species	Cartesian coordinates	Species	Cartesian coordinates
F1	1 -9.375337 -2.916632 -0.154841		1 4.751220 3.792888 -0.579787
	6 -0.172783 1.750323 -0.000001		6 -3.313355 -0.280503 -0.602903
	1 0.166681 2.302493 0.884554		1 -4.031545 0.438678 -0.168924
	1 0.166677 2.302489 -0.884559		1 -3.009615 0.169310 -1.572330
	1 -1.268564 1.763938 0.000001		6 -4.048499 -1.597584 -0.895501
	6 0.369640 0.315164 0.000001		1 -3.360767 -2.308370 -1.382613
	1 -0.016027 -0.221301 -0.877719		1 -4.319236 -2.076660 0.059070
	1 -0.016024 -0.221298 0.877724		6 -5.320719 -1.494114 -1.757618
	6 1.903449 0.244750 -0.000002		1 -6.022462 -0.801564 -1.272025
	1 2.289113 0.781212 -0.877725		1 -5.063471 -1.035729 -2.723310
	1 2.289117 0.781215 0.877717		6 -6.017334 -2.841488 -2.000458
	6 2.445873 -1.190409 -0.000001		1 -6.918515 -2.728690 -2.615286
	1 2.106413 -1.742575 0.884558		1 -5.351191 -3.545393 -2.515027
	1 2.106409 -1.742579 -0.884555		1 -6.317805 -3.307505 -1.053926
	1 3.541653 -1.204024 -0.000003		3 -1.281621 0.670623 -0.259485
			6 -0.319088 -1.168362 -2.456424
			8 0.088607 0.096491 -1.811670
			6 0.319965 1.096435 -2.851604
			6 -0.566005 0.662835 -4.013325
			6 -0.440425 -0.869482 -3.958197
			1 0.439961 -1.919051 -2.228185
	1 -1.266864 -1.460068 -2.001403		
	1 0.064895 2.067936 -2.425400		
	1 1.381296 1.081231 -3.129687		
	1 -1.600213 0.976440 -3.837645		
	1 -0.233921 1.084590 -4.965987		
	1 -1.297811 -1.380949 -4.402721		
	1 0.459536 -1.195076 -4.489731		
	6 -0.628937 3.588416 0.391351		
	8 -1.386028 2.676985 -0.454502		
	6 -2.626005 3.322877 -0.881586		
	6 -2.545966 4.767984 -0.380159		
	6 -1.630785 4.645165 0.849334		
	1 -0.189879 3.006175 1.203769		
	1 0.173260 4.036630 -0.209841		
	1 -2.694475 3.243403 -1.970493		
	1 -3.460607 2.776067 -0.432768		
	1 -2.085184 5.413934 -1.135269		
	1 -3.533610 5.171982 -0.142811		
	1 -1.144534 5.586559 1.119644		
	1 -2.193258 4.283524 1.716419		
INT2	6 -0.661778 -1.542168 -0.624067	TS3	6 -2.257495 1.411642 0.719544
	6 1.035785 -1.181575 -0.848281		6 -0.728180 0.512889 0.593962
	5 0.523767 -2.270681 0.342404		5 -1.107342 1.791981 -0.459829
	5 -0.028734 -1.249478 -2.164287		5 -1.451745 0.788226 2.088340
	5 1.590548 -1.978794 -2.260759		5 0.309071 0.950586 1.889568
	5 1.939535 -2.628777 -0.670199		5 0.490080 1.562005 0.263652
	5 -0.284952 -4.108417 -1.750989		5 -0.794890 3.601009 1.768483
	5 -0.837386 -3.216460 -0.300565		5 -1.895876 3.073231 0.460078
	5 -1.186892 -2.568976 -1.891753		5 -2.126075 2.438237 2.076479
	5 0.788117 -3.937716 -0.320185		5 -0.143299 3.208236 0.140703
	5 1.443938 -3.741638 -1.981094		5 0.719613 2.675270 1.638488
	5 0.210954 -2.865465 -2.950109		5 -0.536362 2.181875 2.833577
	1 0.621432 -2.008901 1.505727		1 -1.290397 1.592181 -1.615606
	1 -0.318972 -0.267355 -2.782150		1 -1.919501 -0.094718 2.735309
	1 2.433902 -1.444102 -2.918123		1 1.015397 0.114876 2.350649
	1 3.031504 -2.560756 -0.190120		1 1.362118 1.268700 -0.604938
	1 -0.771551 -5.153362 -2.070294		1 -0.817466 4.719572 2.183828
	1 -1.710650 -3.561333 0.440132		1 -2.707464 3.755645 -0.082351
	1 -2.308998 -2.454223 -2.287604		1 -3.112391 2.660932 2.708855
	1 1.077391 -4.854784 0.389689		1 0.309593 4.019966 -0.603642
	1 2.209935 -4.521413 -2.466842		1 1.783194 3.117427 1.945004
	1 0.085210 -3.012267 -4.129536		1 -0.379182 2.272498 4.012372
	3 -2.033968 -0.305246 0.367538		3 -4.028882 0.453744 -0.070196
	3 1.946203 0.628403 -0.285229		3 -1.255117 -1.242042 -0.610904
	6 -3.686131 0.789749 -1.889321		6 -4.992742 -0.824332 2.574351
	6 -4.593038 1.330912 0.250807		6 -6.690702 -0.840171 0.904809
	6 -5.521953 1.881413 -0.836011		6 -7.247711 -1.485641 2.175917
	6 -5.192356 0.986825 -2.042939		6 -6.353088 -0.877904 3.268209
	1 -3.124879 1.630289 -2.316376		1 -4.456650 -1.776837 2.666426
	1 -3.305529 -0.143298 -2.309179		1 -4.343727 -0.018529 2.920397
	1 -5.069047 0.531598 0.829269		1 -7.173831 0.119435 0.689924
	1 -4.225129 2.095607 0.940290		1 -6.774094 -1.480430 0.021334
	1 -6.572771 1.834241 -0.538148		1 -8.310015 -1.267770 2.315109
	1 -5.277028 2.925576 -1.058283		1 -7.122946 -2.573303 2.140952
	1 -5.712724 0.026055 -1.966123		1 -6.691796 0.131329 3.526459
	1 -5.453519 1.444324 -3.001029		1 -6.325117 -1.474638 4.183906
	6 -2.873714 -1.340914 3.048736		6 -5.828384 2.803817 0.056940
	8 -2.272539 -0.222527 2.328951		8 -5.445513 1.726909 -0.850988
	6 -1.348227 0.486931 3.201303		6 -6.239523 1.805238 -2.064855
	6 -1.659339 -0.003847 4.615309		6 -6.944519 3.162484 -2.020723
	6 -2.099803 -1.455541 4.363472		6 -7.123346 3.386129 -0.510590
1 -3.931250 -1.104473 3.215863	1 -5.937728 2.377301 1.058051		
1 -2.797833 -2.232105 2.419953	1 -5.018396 3.539213 0.073670		
1 -0.324023 0.233502 2.901942	1 -5.571388 1.695322 -2.923372		
1 -1.510851 1.559618 3.061739	1 -6.959391 0.976684 -2.065941		
1 -0.792987 0.073829 5.277606	1 -6.302787 3.939427 -2.449383		
1 -2.479164 0.577727 5.050566	1 -7.888544 3.153713 -2.572195		

Species	Cartesian coordinates			Species	Cartesian coordinates			
	1	-1.226903	-2.103907	4.236646	1	-7.250516	4.438747	-0.243960
	1	-2.717161	-1.863006	5.168507	1	-7.992782	2.831476	-0.140734
	8	-3.449443	0.759166	-0.451523	8	-5.279884	-0.594150	1.163422
	6	2.064286	3.656061	-0.461475	6	-4.016705	-2.194686	-1.619074
	8	1.247035	2.446631	-0.484963	8	-3.255687	-0.950958	-1.511151
	6	-0.027324	2.727582	-1.130257	6	-3.151677	-0.350642	-2.856628
	6	0.211532	3.993514	-1.949053	6	-4.000793	-1.226697	-3.789919
	6	1.192448	4.769668	-1.053921	6	-4.922780	-1.996368	-2.827843
	1	2.365793	3.848004	0.572315	1	-3.319398	-3.023961	-1.775805
	1	2.959303	3.467015	-1.062947	1	-4.532220	-2.338963	-0.668347
	1	-0.298331	1.850247	-1.721058	1	-3.524971	0.672954	-2.776675
	1	-0.785876	2.889527	-0.353373	1	-2.095828	-0.323038	-3.131630
	1	0.676045	3.743813	-2.909027	1	-4.551568	-0.628323	-4.520570
	1	-0.713985	4.541539	-2.145848	1	-3.362483	-1.925398	-4.339887
	1	1.786680	5.504748	-1.603023	1	-5.798443	-1.395975	-2.558303
	1	0.649065	5.294977	-0.261367	1	-5.273576	-2.946207	-3.241171
	6	4.229786	1.045341	1.714579	6	-0.922734	-4.246836	-0.481721
	8	3.810711	0.795808	0.342690	8	-1.466339	-3.066670	0.181843
	6	4.901744	0.179806	-0.406041	6	-1.399962	-3.242621	1.623656
	6	5.930542	-0.243513	0.641944	6	-1.275154	-4.749404	1.838705
	6	5.743425	0.823689	1.733172	6	-0.421031	-5.172926	0.631563
	1	3.933039	2.064088	1.980875	1	-1.735102	-4.706304	-1.058456
	1	3.708876	0.337099	2.370208	1	-0.132627	-3.920153	-1.161585
	1	4.487895	-0.653176	-0.978795	1	-0.525339	-2.703981	2.003254
	1	5.307797	0.930305	-1.095224	1	-2.305321	-2.805684	2.052563
	1	5.689979	-1.238261	1.031419	1	-0.810825	-4.991644	2.798770
	1	6.945123	-0.268918	0.235390	1	-2.261705	-5.225305	1.802691
	1	6.098788	0.502471	2.715885	1	0.637039	-4.981158	0.830615
	1	6.268806	1.745779	1.462220	1	-0.539848	-6.228539	0.371345
CAT2	28	0.000472	0.004475	-0.005669	8	1.657727	-0.291616	-0.307434
	17	0.000334	-0.914595	-2.016913	7	0.421195	-1.063824	-2.349701
	17	0.001068	0.955764	1.990699	7	2.134496	-2.334086	0.358325
	15	2.303046	-0.040951	-0.074041	5	3.796176	0.244699	-0.052657
	15	-2.301814	0.038264	0.072338	6	4.499461	-0.167243	1.587213
	6	2.987387	1.215864	-1.234457	6	4.033601	0.525289	2.719825
	6	4.355248	1.549424	-1.220561	6	5.438525	-1.197943	1.750264
	6	2.133244	1.883715	-2.127059	6	4.523943	0.209401	3.989005
	6	4.858073	2.516422	-2.094888	1	3.291000	1.311133	2.618759
	1	5.031595	1.066279	-0.519998	6	5.923181	-1.513945	3.023909
	6	2.638042	2.856276	-2.997638	1	5.789611	-1.763364	0.892521
	1	1.076506	1.636843	-2.150642	6	5.471396	-0.809753	4.144906
	6	4.000281	3.172668	-2.986348	1	4.159547	0.756546	4.855555
	1	5.917932	2.760492	-2.074596	1	6.651437	-2.313955	3.136918
	1	1.963869	3.366288	-3.682175	1	5.850039	-1.056674	5.134339
	1	4.391611	3.929253	-3.663040	6	4.832809	-0.583168	-1.328296
	6	3.247659	0.296124	1.475375	6	4.266277	-1.478400	-2.247807
	6	3.909834	-0.717234	2.186133	6	6.199027	-0.258502	-1.429428
	6	3.276622	1.609704	1.980152	6	5.062488	-2.054522	-3.245279
	6	4.595062	-0.422832	3.371757	1	3.210756	-1.723147	-2.191255
	1	3.909768	-1.738871	1.818935	6	6.990402	-0.843146	-2.420053
	6	3.966624	1.902729	3.157763	1	6.650428	0.450469	-0.739409
	1	2.762566	2.409073	1.453952	6	6.422655	-1.743671	-3.331376
	6	4.627528	0.886476	3.860015	1	4.613519	-2.745139	-3.955680
	1	5.107364	-1.219767	3.906451	1	8.046526	-0.590819	-2.484242
	1	3.982993	2.924640	3.530307	1	7.038416	-2.194324	-4.106796
	1	5.163233	1.115376	4.778767	6	4.183539	2.021915	-0.353474
	6	2.915567	-1.691431	-0.608800	6	3.665331	2.611480	-1.520808
	6	3.975999	-1.869676	-1.508815	6	5.025436	2.777280	0.477697
	6	2.284940	-2.822448	-0.061227	6	3.981471	3.930747	-1.848443
	6	4.407157	-3.158643	-1.845490	1	3.017509	2.040710	-2.183361
	1	4.464365	-1.013126	-1.963611	6	5.336395	4.102262	0.149219
	6	2.723757	-4.107879	-0.388191	1	5.448894	2.343098	1.378017
	1	1.441437	-2.700450	0.615581	6	4.816114	4.682334	-1.011279
	6	3.787525	-4.279320	-1.282943	1	3.571854	4.372676	-2.753867
	1	5.226340	-3.283339	-2.550303	1	5.987413	4.677140	0.804135
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	1	4.124744	-5.279603	-1.545671				
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	1	-5.030537	-1.032669	0.579279				
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	1	-1.064488	-1.588409	2.188075				
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	1	-1.949829	-3.268416	3.774546				
	1	-4.381917	-3.812326	3.794583				
	6	-3.256263	-0.358776	-1.456595				
	6	-3.957477	0.617296	-2.181584				
	6	-3.257631	-1.685615	-1.926219				
	6	-4.653442	0.273189	-3.347575				
	1	-3.979348	1.647836	-1.840989				
	6	-3.957813	-2.028203	-3.084132				
	1	-2.713201	-2.456550	-1.387966				
	6	-4.657531	-1.048800	-3.801265				
	1	-5.196034	1.041551	-3.894087				
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Species	Cartesian coordinates	Species	Cartesian coordinates
	1 -5.201206 -1.316128 -4.704831		
	6 -2.910979 1.706706 0.551007		
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	6 -2.730418 4.112314 0.227070		
	1 -1.471951 2.666699 -0.752329		
	6 -4.373324 3.221205 1.765144		
	1 -4.422088 1.082033 1.972385		
	6 -3.770906 4.318767 1.141661		
	1 -2.248304 4.960235 -0.254422		
	1 -5.174210 3.373599 2.485375		
	1 -4.103415 5.328520 1.372182		
INT3	6 -2.574391 1.548835 -0.754897	TS4	6 -1.963154 1.337717 0.748661
	6 -1.057940 1.758204 -0.215980		6 -0.316980 1.338912 0.492990
	5 -1.282954 1.523515 -1.875296		5 -1.283663 2.333829 -0.467416
	5 -2.266461 2.566661 0.599906		5 -0.890210 1.118184 2.059933
	5 -0.669183 3.331286 0.327941		5 0.546142 2.135121 1.733701
	5 -0.051907 2.639547 -1.195994		5 0.305751 2.894498 0.141185
	5 -2.389414 4.159889 -1.805767		5 -1.724949 3.879497 1.926825
	5 -2.719622 2.455236 -2.231627		5 -2.526900 2.956944 0.623085
	5 -3.329867 3.096195 -0.707276		5 -2.283119 2.200311 2.196400
	5 -1.090215 3.165320 -2.547190		5 -1.104282 3.971081 0.243847
	5 -0.723883 4.294719 -1.173042		5 0.028313 3.835483 1.633103
	5 -2.133192 4.251481 -0.034548		5 -0.703143 2.726111 2.845260
	1 -0.954753 0.503086 -2.388672		1 -1.460633 2.081571 -1.614001
	1 -2.619477 2.234128 1.682449		1 -0.808905 0.063906 2.599607
	1 0.077001 3.460447 1.242971		1 1.605642 1.726084 2.760726
	1 1.101142 2.266695 -1.203047		1 1.203233 3.004134 -0.623882
	1 -2.904984 5.049831 -2.405876		1 -2.273987 4.798084 2.450865
	1 -3.464874 2.073549 -3.075179		1 -3.622088 3.145449 0.199661
	1 -4.500447 3.163245 -0.510415		1 -3.209033 1.866857 2.864481
	1 -0.678001 3.339220 -3.649230		1 -1.189495 4.946310 -0.433660
	1 -0.039044 5.257241 -1.315583		1 0.775491 4.711353 1.939223
	1 -2.464260 5.184842 0.624977		1 -0.499333 2.815864 4.014831
	3 -3.057166 -0.424329 0.039486	28	0.247749 -0.190371 -0.463792
	6 -4.152003 -0.701514 2.908459	17	-1.381932 -1.453428 -1.430004
	6 -5.743965 0.012614 1.284467	3	-3.097471 -0.298139 -0.114184
	6 -6.407332 0.033341 2.664596	15	2.438682 -0.225623 -0.198777
	6 -5.200002 0.163229 3.608334	6	3.042333 -0.787501 1.434127
	1 -4.254812 -1.759765 3.180232	6	4.390145 -0.670369 1.815299
	1 -3.121285 -0.386747 3.085698	6	2.131296 -1.415038 2.300739
	1 -5.616958 1.021480 0.876193	6	4.816147 -1.171933 3.048960
	1 -6.277283 -0.602851 0.553684	1	5.110069 -0.193125 1.156013
	1 -7.122523 0.854345 2.763354	6	2.562190 -1.920182 3.530146
	1 -6.937577 -0.907014 2.850260	1	1.084874 -1.505144 2.018688
	1 -4.863121 1.204056 3.660143	6	3.904441 -1.796950 3.907619
	1 -5.409260 -0.182375 4.624495	1	5.860438 -1.074669 3.336823
	6 -3.413376 -1.795904 -2.672376	1	1.848326 -2.400844 4.194993
	8 -3.507331 -1.875997 -1.223783	1	4.238080 -2.183408 4.868067
	6 -4.039103 -3.172758 -0.830349	6	2.688178 -1.654269 -1.335634
	6 -4.125991 -4.000162 -2.117106	6	3.400205 -2.805760 -0.956031
	6 -4.306198 -2.919447 -3.196600	6	2.103511 -1.600189 -2.616382
	1 -3.729129 -0.794396 -2.972871	6	3.539485 -3.872240 -1.848912
	1 -2.366183 -1.941604 -2.964975	1	3.848436 -2.875297 0.030688
	1 -3.371666 -3.605191 -0.079355	6	2.247398 -2.667673 -3.506362
	1 -5.024061 -3.011798 -0.378047	1	1.535825 -0.724616 -2.927116
	1 -3.194111 -4.551327 -2.282777	6	2.965797 -3.805724 -3.124380
	1 -4.947286 -4.721197 -2.086836	1	4.097003 -4.755748 -1.546368
	1 -4.008059 -3.253533 -4.194147	1	1.790989 -2.610991 -4.491684
	1 -5.349687 -2.589052 -3.241462	1	3.074404 -4.639296 -3.814605
	8 -4.422088 -0.565084 1.485475	6	3.609272 1.075030 -0.767084
28	0.406180 0.657245 0.073343	6	4.211560 1.013555 -2.035508
17	-0.742128 -0.853577 1.198876	6	3.893727 2.170344 0.069972
15	2.532239 -0.259311 0.159475	6	5.078356 2.027340 -2.457513
6	3.000221 -0.703586 1.879499	1	4.024779 0.174953 -2.698071
6	2.487655 0.089429 2.920945	6	4.764735 3.176416 -0.353165
6	3.846829 -1.779784 2.190645	1	3.444190 2.242511 1.054561
6	2.833993 -0.175323 4.249164	6	5.357307 3.111320 -1.619553
1	1.812477 0.912765 2.696222	1	5.538600 1.961971 -3.440781
6	4.183939 -2.050173 3.521341	1	4.975090 4.013667 0.308340
1	4.241381 -2.415077 1.402308	1	6.033156 3.897498 -1.948494
6	3.682314 -1.246920 4.552057	6	-3.703752 -1.757308 2.510351
1	2.432983 0.447644 5.045520	8	-4.030759 -1.570194 1.105211
1	4.837270 -2.889011 3.751148	6	-4.645929 -2.776914 0.574170
1	3.945675 -1.459017 5.585974	6	-4.440652 -3.853817 1.641603
6	2.776766 -1.781332 -0.845542	6	-4.438619 -3.028392 2.939157
6	1.670885 -2.618953 -1.073935	1	-2.617018 -1.865562 2.603813
6	4.027751 -2.136178 -1.380419	1	-4.015771 -0.860250 3.050857
6	1.818469 -3.796574 -1.814201	1	-5.709914 -2.572377 0.403645
1	0.697917 -2.353064 -0.669344	1	-4.169827 -3.009421 -0.382099
6	4.170642 -3.311694 -2.124303	1	-5.225053 -4.615256 1.615645
1	4.892327 -1.495434 -1.226603	1	-3.474624 -4.350960 1.502356
6	3.067121 -4.145285 -2.341466	1	-5.463854 -2.794101 3.246011
1	0.956084 -4.437673 -1.983310	1	-3.939273 -3.532914 3.770869
1	5.143463 -3.574236 -2.534166	6	-5.799058 0.797787 -0.935606
1	3.179466 -5.058553 -2.921746	8	-4.565762 0.176535 -1.391227
6	3.863041 0.877968 -0.418717	6	-4.357785 0.461431 -2.802303
6	3.816597 1.333413 -1.750075	6	-5.694851 0.999502 -3.313557

Species	Cartesian coordinates	Species	Cartesian coordinates
	6 4.883337 1.344250 0.424745		6 -6.249037 1.718701 -2.072288
	6 4.779796 2.223365 -2.229478		1 -6.530455 0.003643 -0.741164
	1 3.034565 0.986063 -2.422610		1 -5.592412 1.327226 -0.001665
	6 5.843716 2.243678 -0.055945		1 -3.558984 1.206410 -2.892939
	1 4.939492 1.008946 1.456464		1 -4.035121 -0.463349 -3.286897
	6 5.796030 2.684145 -1.381805		1 -5.570927 1.660982 -4.175399
	1 4.733124 2.561748 -3.262194		1 -6.354335 0.174737 -3.605560
	1 6.628769 2.596104 0.609507		1 -5.789657 2.707171 -1.966556
	1 6.542777 3.382164 -1.753656		1 -7.334961 1.845541 -2.094966
F2	3 -0.193160 0.068345 -1.178971	COMI	6 -0.762030 2.655873 -0.106539
	17 -1.143064 -1.957952 -1.556438		6 0.776420 2.601217 -0.144449
	6 1.948995 -0.832556 0.643362		5 -0.016638 3.134404 -1.568221
	8 1.463207 0.269852 -0.180670		5 0.055845 3.009819 1.357212
	6 2.548433 1.212088 -0.434369		5 1.523534 3.822482 0.787372
	6 3.746717 0.706172 0.376957		5 1.479905 3.898172 -1.001541
	6 3.466993 -0.802169 0.490487		5 -0.785196 5.392886 0.012640
	1 1.642804 -0.650599 1.680903		5 -1.413427 4.009431 -0.928221
	1 1.472143 -1.745879 0.280552		5 -1.372341 3.928766 0.858823
	1 2.751053 1.210074 -1.511029		5 0.055210 4.894183 -1.491668
	1 2.214687 2.209878 -0.135273		5 1.006246 5.325096 -0.033016
	1 4.696561 0.932187 -0.114615		5 0.123661 4.769416 1.426256
	1 3.758639 1.166552 1.370430		1 -0.077797 2.430219 -2.521509
	1 3.768722 -1.322885 -0.424612		1 0.041461 2.229860 2.249891
	1 3.976764 -1.269104 1.337546		1 2.554939 3.627944 1.337708
	6 -2.002797 1.674985 -2.871620		1 2.484447 3.755760 -1.616487
	8 -0.979290 1.722518 -1.832134		1 -1.396970 6.411877 0.069406
	6 -1.016788 3.018029 -1.161221		1 -2.453186 3.950179 -1.494172
	6 -2.059513 3.853791 -1.912408		1 -2.386682 3.810333 1.461945
	6 -2.988248 2.781913 -2.507996		1 0.054577 5.546660 -0.068286
	1 -1.522264 1.862596 -3.839737		1 1.693506 6.296180 -2.009435
	1 -2.425911 0.667941 -2.867116		1 0.170849 5.335059 2.471578
	1 -1.301357 2.848131 -0.116989		28 -0.055514 0.850581 -0.129349
	1 -0.012673 3.450711 -1.192258		15 1.771282 -0.493749 -0.052853
	1 -2.577145 4.551825 -1.249284		15 -1.856710 -0.471428 -0.003315
	1 -1.583855 4.431573 -2.711783		6 1.648823 -2.318218 0.254576
	1 -3.701793 2.425906 -1.757200		6 2.029097 -2.917921 1.464743
	1 -3.549354 3.136978 -3.376615		6 1.162198 -3.138389 -0.780470
PPh₃	15 -0.078834 -0.221546 0.119180		6 1.930431 -4.304255 1.634409
	6 -0.038394 -0.122507 1.968840		1 2.419508 -2.317117 2.279616
	6 0.788118 -0.906583 2.792023		6 1.068475 -4.521488 -0.612227
	6 -0.872568 0.837600 2.573371		1 0.874838 -2.707192 -1.734847
	6 0.772294 -0.742910 4.183057		6 1.452703 -5.111068 0.598331
	1 1.449378 -1.648222 2.351780		1 2.234283 -4.749776 2.579115
	6 -0.899399 0.992735 3.963059		1 0.698597 -5.137377 -1.429132
	1 -1.507035 1.469603 1.953610		1 1.382616 -6.188624 0.729815
	6 -0.073569 0.202915 4.773151		6 2.866061 0.116366 1.301499
	1 1.420395 -1.357671 4.804465		6 4.210222 0.465497 1.098496
	1 -1.555377 1.736225 4.411041		6 2.312319 0.267656 2.585530
	1 -0.085110 0.328591 5.853700		6 4.986950 0.942301 2.161159
	6 1.415478 -1.245651 -0.269601		1 4.659693 0.380271 0.113988
	6 1.401339 -2.638633 -0.456734		6 3.091722 0.731463 3.648099
	6 2.635770 -0.559505 -0.421711		1 1.268918 0.021251 2.763182
	6 2.577956 -3.328187 -0.776135		6 4.433421 1.071803 3.438650
	1 0.471722 -3.192385 -0.355258		1 6.025260 1.214823 1.984992
	6 3.813963 -1.248440 -0.727195		1 2.647028 0.837594 4.635150
	1 2.666478 0.522343 -0.300336		1 5.039048 1.442422 4.262723
	6 3.787702 -2.637186 -0.908008		6 2.809506 -0.459112 -1.577630
	1 2.547624 -4.406496 -0.919121		6 3.857917 -1.380467 -1.764806
	1 4.747751 -0.700491 -0.834723		6 2.560404 0.495932 -2.574637
	1 4.700841 -3.174187 -1.155640		6 4.641650 -1.337490 -2.919994
	6 -1.475006 -1.397464 -0.198075		1 4.064045 -2.136933 -1.012061
	6 -2.090395 -2.189743 0.786428		6 3.344166 0.536431 -3.733934
	6 -1.966275 -1.461643 -1.516229		1 1.755776 1.211319 -2.450606
	6 -3.160453 -3.032182 0.459000		6 4.386348 -0.378457 -3.909123
	1 -1.738486 -2.152652 1.814004		1 5.449890 -2.054099 -3.048583
	6 -3.025714 -2.312539 -1.847335		1 3.136214 1.283224 -4.496983
	1 -1.517344 -0.842130 -2.291309		1 4.994932 -0.348533 -4.810293
	6 -3.628472 -3.099932 -0.858083		6 -2.174888 -1.467983 -1.518549
	1 -3.625734 -3.637114 1.234687		6 -1.326972 -1.307821 -2.625556
	1 -3.386630 -2.351928 -2.872987		6 -3.295958 -2.310227 -1.634607
	1 -4.459302 -3.755155 -1.110902		6 -1.576606 -1.993600 -3.819959
			1 -0.477001 -0.632477 -2.562371
			6 -3.539553 -3.003044 -2.822613
			1 -3.991049 -2.416580 -0.805105
			6 -2.678857 -2.848114 -3.917810
			1 -0.913001 -1.855046 -4.670594
			1 -4.406893 -3.655204 -2.897938
			1 -2.875265 -3.382186 -4.844871
			6 -1.743303 -1.614043 1.434888
			6 -1.493251 -1.024128 2.689046
			6 -1.870946 -3.007846 1.353734
			6 -1.404487 -1.810331 3.840102
			1 -1.385159 0.055876 2.773327
			6 -1.771011 -3.795139 2.507006
			1 -2.036097 -3.492095 0.396732
			6 -1.545310 -3.200947 3.751822
			1 -1.222994 -1.337155 4.802687
			1 -1.866380 -4.875525 2.426732

Species	Cartesian coordinates	Species	Cartesian coordinates
			1 -1.472364 -3.815554 4.646329
			6 -3.500100 0.349581 0.219961
			6 -4.375673 0.052026 1.275303
			6 -3.900016 1.280600 -0.754518
			6 -5.625503 0.679896 1.357055
			1 -4.098066 -0.669741 2.037292
			6 -5.148600 1.899489 -0.676265
			1 -3.237761 1.524485 -1.580759
			6 -6.016031 1.603286 0.383284
			1 -6.291993 0.440737 2.182972
			1 -5.441296 2.617934 -1.438730
			1 -6.987072 2.089361 0.447667

Table S4 The first three vibration frequencies for stationary points corresponding to the generation of active **COM1**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)
R	449 458 507	INT1	14 19 21	INT2	-9 11 13	INT3	7 8 12
CAT1	13 17 19	F1	118 223 259	CAT2	9 17 21	F2	18 24 26
TS1	-1271i 10 15	TS2	-1398i 6 15	TS3	-51i 15 17	TS4	-36i 9 10
PPh₃	25 26 45	COM1	17 18 24				

Table S5 The total energies (*E*: a.u.), zero-point energies (*ZPE*: kcal·mol⁻¹) and Gibbs free energies [*G* and *G*(sol,298K): a.u.] for stationary points corresponding to the generation of **COM1**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	<i>E</i>	<i>ZPE</i>	<i>G</i>	<i>G</i> (sol,298K)
R	-332.10394	110.34233	-331.95895	-331.94707
CAT1	-630.36758	223.56864	-630.06822	-630.05801
TS1	-962.46867	332.11422	-962.00726	-961.99665
INT1	-804.06442	252.19498	-803.71982	-803.70928
F1	-158.47286	82.93258	-158.36874	-158.35829
TS2	-1434.41746	474.41160	-1433.74625	-1433.73591
INT2	-1275.99937	393.50106	-1275.45312	-1275.44317
CAT2	-4501.20600	346.29956	-4500.73170	-4500.71869
TS3	-4740.86056	569.20927	-4740.05633	-4740.04519
INT3	-3808.09625	417.39800	-3807.52070	-3807.50985
TS4	-3808.10139	418.09296	-3807.52083	-3807.50949
F2	-932.80480	150.01709	-932.61432	-932.60275
PPh₃	-1036.32562	171.02850	-1036.09936	-1036.08737
COM1	-3911.65455	440.55338	-3911.03221	-3911.02141

Table S6 The optimized Cartesian coordinates (Å) for stationary points on potential energy surfaces from **COM1** and **R2** (or **R3**) to **INT1_I-IV**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	Cartesian coordinates	Species	Cartesian coordinates		
R2a	6 -2.951471 0.326615 -0.000154	R2e	6 -2.812824 0.389871 -0.027474		
	1 -2.817089 1.406054 -0.000349		1 -2.536563 1.438794 -0.088788		
	1 -3.977638 -0.031471 -0.000096		1 -3.873193 0.149722 -0.014625		
	6 -1.925154 -0.539796 0.000082		6 -1.888846 -0.579146 0.030566		
	1 -2.130522 -1.609585 0.000288		1 -2.167966 -1.628183 0.091878		
	6 -0.482902 -0.216793 0.000129		6 -0.422119 -0.349054 0.018782		
	6 0.016051 1.100921 0.000094		8 0.396929 -1.258239 0.073121		
	6 1.665904 -1.072699 -0.000092		8 -0.078238 0.954832 -0.057359		
	6 1.393528 1.309002 0.000020		6 1.339510 1.233860 -0.072088		
	1 -0.663425 1.948784 0.000136		1 1.420390 2.318857 -0.135700		
	6 2.246038 0.198829 -0.000058		1 1.809559 0.867244 0.843533		
	1 2.295155 -1.962865 -0.000128		1 1.811637 0.762672 -0.937416		
	1 1.797315 2.319274 0.000019				
	1 3.327126 0.311620 -0.000098				
	7 0.342445 -1.288327 0.000015				
	R3a		6 -0.431664 1.879154 0.000193	R3b	6 -0.010793 0.003778 0.043457
	6 0.784664 1.870846 -0.000193		6 -0.015518 0.002727 1.261230		
6 2.257552 1.839613 -0.000750	6 0.015752 0.005234 -1.426731				
1 2.626651 2.403627 -0.866348	1 -0.524776 -0.876396 -1.792637				
1 2.626590 2.367256 0.887511	1 -0.538250 0.879080 -1.791108				
6 2.837933 0.412228 -0.030340	6 1.442847 0.016647 -2.011105				
1 2.513163 -0.123999 -0.927250	1 2.004791 -0.865216 -1.689305				
1 3.932440 0.448897 -0.029590	1 1.400414 0.017250 -3.105208				
1 2.513167 -0.160739 0.843554	1 1.991251 0.906443 -1.687790				

Species	Cartesian coordinates	Species	Cartesian coordinates
	6 -1.904552 1.910387 0.000750 1 -2.273590 1.382744 -0.887511 1 -2.273651 1.346373 0.866348 6 -2.484933 3.337772 0.030340 1 -2.160167 3.910739 -0.843554 1 -3.579440 3.301103 0.029590 1 -2.160163 3.873999 0.927250		6 -0.026515 0.001497 2.697095 6 -0.009086 -1.213736 3.414330 6 -0.056607 1.215481 3.416026 6 -0.021597 -1.211219 4.811034 1 0.014195 -2.153767 2.868515 6 -0.069006 1.210534 4.812720 1 -0.070123 2.156461 2.871517 6 -0.051556 -0.000955 5.515865 1 -0.007808 -2.155237 5.351369 1 -0.092163 2.153616 5.354368 1 -0.061193 -0.001903 6.603482
R3c	6 0.793945 0.005425 0.746012 6 -0.394590 0.003544 0.480662 6 2.229053 -0.010056 1.061726 1 2.742505 0.721158 0.423543 1 2.371164 0.333416 2.095108 6 2.881893 -1.398126 0.885700 1 2.734976 -1.733868 -0.148228 1 2.362126 -2.121320 1.526174 6 -1.796237 0.002425 0.168770 6 -2.501716 1.216383 0.026768 6 -2.493014 -1.213004 -0.001104 6 -3.865203 1.211134 -0.276413 1 -1.973091 2.157663 0.155825 6 -3.856432 -1.210694 -0.304467 1 -1.957553 -2.153130 0.106510 6 -4.548208 -0.000481 -0.443355 1 -4.396621 2.154306 -0.382989 1 -4.380957 -2.155022 -0.432815 1 -5.609918 -0.001590 -0.679501 6 4.379311 -1.389261 1.221320 1 4.517990 -1.043577 2.254512 1 4.890709 -0.657591 0.581529 6 5.037511 -2.764581 1.050668 1 4.946124 -3.122955 0.018603 1 6.104387 -2.727109 1.296810 1 4.571021 -3.511495 1.703713	R3d	6 -0.219398 0.577329 0.002720 6 1.000862 0.577272 0.002655 6 -1.650610 0.577397 0.002788 6 -2.368036 0.619590 -1.212920 6 -2.367926 0.535272 1.218562 6 -3.764035 0.619494 -1.208176 1 -1.822664 0.652157 -2.152816 6 -3.763925 0.535501 1.213950 1 -1.822469 0.502654 2.158408 6 -4.467408 0.577531 0.002920 1 -4.305470 0.652215 -2.150989 1 -4.305275 0.502831 2.156813 1 -5.555008 0.577582 0.002971 6 2.432061 0.577204 0.002587 6 3.149373 0.619329 -1.213183 6 3.149483 0.535010 1.218290 6 4.545371 0.619100 -1.208574 1 2.603923 0.651948 -2.153032 6 4.545480 0.535104 1.213551 1 2.604117 0.502442 2.158190 6 5.248857 0.577068 0.002455 1 5.086722 0.651769 -2.151438 1 5.086917 0.502382 2.156364 1 6.336457 0.577016 0.002404
TSI_1a	6 2.733704 -1.035053 -0.666087 6 2.459062 0.314648 0.106840 5 3.156112 0.417923 -1.466616 5 2.902699 -1.072079 1.037837 5 3.555841 0.534245 1.390513 5 3.713515 1.443391 -0.139531 5 5.437908 -0.876145 -0.296716 5 4.188992 -1.028396 -1.561356 5 4.032958 -1.942597 -0.024294 5 4.894553 0.581078 -1.192923 5 5.148229 0.655810 0.582942 5 4.640129 -0.905070 1.310321 1 2.489983 0.783888 -2.376550 1 2.079665 -1.623556 1.684952 1 3.210937 1.093357 2.378251 1 3.474975 2.603184 -0.166324 1 6.517603 -1.343397 -0.465429 1 4.254754 -1.625864 -2.583045 1 3.998780 -3.126676 -0.058486 1 5.578407 1.156287 -1.975901 1 6.023607 1.304650 1.057609 1 5.145912 -1.368126 2.280432 28 0.791397 -0.437467 -0.487488 15 -0.901394 0.857597 -0.014556 6 -0.015940 -1.966738 -1.464306 6 1.401007 -2.216491 -1.589984 1 1.777597 -3.097706 -1.080697 1 1.838414 -2.028192 -2.565466 1 -0.509017 -1.563174 -2.346422 6 -0.855394 -2.879307 -0.651358 6 -2.230484 -3.015415 -0.927507 6 -2.995943 -3.895766 -0.165089 1 -2.681611 -2.441726 -1.732551 6 -1.005805 -4.427730 1.057842 6 -2.375261 -4.624396 0.855383 1 -4.058497 -4.015641 -0.366097 1 -0.483242 -4.977570 1.840926 1 -2.928661 -5.325250 1.474757 7 -0.257858 -3.582978 0.335030 6 -2.336279 0.682257 -1.153801 6 3.650208 0.474945 -0.708030 6 -2.086206 0.743438 -2.537830 6 -4.696875 0.340813 -1.629229 1 -3.867049 0.409073 0.354054 6 -3.132306 0.619571 -3.455055 1 -1.071532 0.893205 -2.903203 6 -4.442543 0.415770 -3.001988 1 -5.710117 0.176575 -1.269210 1 -2.923888 0.675995 -4.521132 1 -5.257044 0.312542 -3.715476 6 -1.545848 0.573672 1.683817	INT1_1a	6 -3.536598 -1.122100 0.250261 6 -2.690571 0.264183 -0.050895 5 -3.522078 0.099958 1.446188 5 -3.481057 -0.523336 -1.355129 5 -3.532765 1.234833 -1.185115 5 -3.553968 1.620785 0.543587 5 -5.969346 0.145621 -0.068459 5 -5.001295 -0.821777 1.074372 5 -4.975180 -1.210626 -0.663514 5 -5.060143 0.955805 1.252294 5 -5.076218 1.667635 -0.395402 5 -5.021790 0.322068 -1.582966 1 -2.898489 -0.084074 2.434051 1 -2.828424 -1.111979 -2.146618 1 -2.904576 1.894131 -1.945921 1 -2.943638 2.545800 0.967125 1 -7.156835 0.086894 -0.071012 1 -5.376171 -1.627987 1.858831 1 -5.333160 -2.276316 -1.040653 1 -5.582924 1.466892 2.189166 1 -5.624608 2.695767 -0.631441 1 -5.517309 0.381564 -2.661374 28 -0.809050 0.029529 -0.018074 15 1.412946 0.603521 -0.019226 6 -1.144909 -1.743363 0.737454 6 -2.576503 -2.272639 0.493781 1 -2.904405 -2.865773 1.355816 1 -2.575240 -2.931059 -0.375600 1 -1.007486 -1.463494 1.788514 6 -0.084618 -2.706570 0.319755 6 1.034269 -2.949283 1.142593 6 1.987624 -3.888746 0.750981 1 1.138351 -2.418954 2.084916 6 0.672171 -4.263181 -1.216650 6 1.808459 -4.566925 -0.457671 1 2.850524 -4.092108 1.381394 1 0.496397 -4.770976 -2.165338 1 2.519880 -5.311165 -0.805952 7 -0.249799 -3.364323 -0.851805 6 2.532215 0.174033 -1.408350 6 2.217549 -0.933087 -2.212111 6 3.666017 0.949010 -1.714972 6 3.034806 -1.272794 -3.296673 1 1.330051 -1.522865 -2.001890 6 4.480202 0.607396 -2.797310 1 3.910414 1.825017 -1.118386 6 4.166981 -0.505896 -3.589065 1 2.780355 -2.130681 -3.914886 1 5.354195 1.212818 -3.027097 1 4.799357 -0.767130 -4.434757 6 2.338125 0.334413 1.542698

Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -2.549634 2.488131 1.865241		1 0.598985 0.846321 2.733617
	6 -1.728353 -0.875374 3.628029		6 4.302286 -0.320072 2.816862
	1 -0.633130 -1.382075 1.844957		1 4.224573 -0.273706 0.667569
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	1 -1.486810 -1.812195 4.124943		1 5.336031 -0.658003 2.837085
	1 -2.878016 -0.100592 5.284735		1 4.100637 -0.281877 4.967417
	6 -0.533099 2.666778 -0.028573		6 1.220467 2.433510 -0.169295
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	6 0.499320 3.136945 0.802525		6 0.431591 2.902735 -1.237577
	6 -0.950135 4.952772 -0.749641		6 1.548086 4.729246 0.557379
	1 -2.066534 3.253732 -1.444824		1 2.384186 3.019703 1.562224
	6 0.796673 4.499618 0.861573		6 0.208247 4.271384 -1.407219
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	6 1.327372 -1.678195 0.328229		6 -1.664715 -1.675557 -0.192207
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	1 -3.322797 -1.741036 5.138392		1 5.149325 -4.659911 0.511334
	6 -2.271457 1.832418 -0.170929		6 2.409954 1.211547 1.420732
	6 -3.457206 2.170242 -0.840994		6 3.380170 2.226972 1.406423
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	1 -4.052243 1.402827 -1.328249		1 3.959553 2.421351 0.507680
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	1 -0.579809 2.604364 0.942040		1 0.897668 0.214559 2.609169
	6 -3.136412 4.506280 -0.267448		6 2.865107 2.768026 3.714941
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	1 -1.358474 4.951330 0.880970		1 1.311568 1.577408 4.634699
	1 -3.471085 5.540602 -0.305618		1 3.040192 3.372944 4.601845
	6 -2.695956 -0.885107 -1.189104		6 2.759751 1.034303 -1.481630
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	6 -3.022461 -1.823207 -3.411183		6 4.537484 1.492131 -3.076598
	1 -1.279152 -0.711067 -2.815493		1 4.680297 0.029777 -1.504356
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -5.669137 -2.552880 -1.390436		1 1.828826 3.469907 -3.688832
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	6 -2.767983 2.714807 -0.569948		6 -2.295996 0.797623 -2.440150
	6 -0.605032 4.358823 -1.232736		6 -4.284697 -1.104117 -2.962321
	1 0.627068 2.641970 -0.837332		1 -3.700674 -2.017902 -1.104533
	6 -2.986777 4.044402 -0.940246		6 -3.061272 0.885668 -3.608870
	1 -3.619880 2.086507 -0.324699		1 -1.511625 1.527804 -2.261972
	6 -1.905923 4.870448 -1.272452		6 -4.056591 -0.061351 -3.870069
	1 0.240679 4.990779 -1.494403		1 -5.050239 -1.849297 -3.166499
	1 -4.002290 4.432842 -0.971402		1 -2.870333 1.689162 -4.316550
	1 -2.078491 5.903959 -1.564557		1 -4.647158 0.005491 -1.781091
	6 -1.240870 0.447970 1.839660		6 -1.061245 -2.113372 0.150260
	6 -1.763890 1.517515 2.583475		6 -1.334134 -2.896335 1.286916
	6 -0.756800 -0.686105 2.516184		6 -0.292882 -2.663888 -0.897225
	6 -1.811276 1.447715 3.980445		6 -0.866034 -4.210310 1.360756
	1 -2.128383 2.410539 2.084281		1 -1.920126 -2.488744 2.105939
	6 -0.814599 -0.757621 3.910429		6 0.178597 -3.978212 -0.813517
	1 -0.330082 -1.514417 1.955713		1 -0.085250 -2.079988 -1.793446
	6 -1.341519 0.310595 4.646282		6 -0.108223 -4.753147 0.314032
	1 -2.213991 2.284939 4.546130		1 -1.093718 -4.812772 2.237311
	1 -0.438364 -1.641292 4.420956		1 0.767064 -4.391509 -1.629030
	1 -1.378979 0.259460 5.732144		1 0.256527 -5.775644 0.379746
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	5 2.321243 -1.579817 -1.506359		5 -2.759892 -1.402260 1.338228
	5 2.741754 -0.472134 1.149949		5 -3.175748 -0.459173 -1.340351
	5 2.503009 -2.220229 1.297734		5 -2.773075 -2.180014 -1.414295
	5 2.243794 -2.899960 -0.330790		5 -2.517792 -2.760537 0.237849
	5 4.899344 -1.758213 -0.253771		5 -5.270137 -1.895713 0.023842
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	5 4.206731 -0.170368 0.177497		5 -4.712912 -0.269044 -0.449409
	5 3.733590 -2.628934 -1.303466		5 -4.054476 -2.593460 1.144254
	5 3.851323 -3.027515 0.442370		5 -4.072463 -3.085880 -0.582015
	5 4.156946 -1.513872 1.362201		5 -4.475529 -1.641108 -1.567938
	1 1.598680 -1.458372 -2.439313		1 -2.097001 -1.171281 2.290864
	1 2.281318 0.329176 1.885901		1 -2.782167 0.351098 -2.102271

Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 6.073947 -1.872672 -0.390963		1 -6.429285 -2.141316 0.117095
	1 4.340138 -0.261998 -2.407190		1 -4.922508 -0.265168 2.131199
	1 4.786010 0.853453 0.296337		1 -5.367964 0.697857 -0.645090
	1 4.062982 -3.372438 -2.169101		1 -4.331732 -3.324855 -2.083777
	1 4.268698 -4.074978 0.817225		1 -4.375157 -4.183939 -0.921807
	1 4.787836 -1.477493 2.367892		1 -5.053767 -1.698984 -2.604109
28	0.578033 0.109808 -0.442940	28	-0.304334 -0.460856 -0.157664
6	0.637838 1.777898 -1.390993	15	1.898587 0.017957 -0.030608
6	2.077855 1.495778 -1.329222	6	-1.097598 1.259312 0.108713
15	-1.534434 -0.040043 -0.031989	6	-2.501121 1.213761 0.750924
1	2.536798 1.260372 -2.284444	1	-2.398847 1.186125 1.836989
1	0.283676 2.636149 -0.822732	1	-1.140047 1.649490 -0.913089
1	0.183418 1.681427 -2.376119	1	-0.425413 1.876311 0.713402
6	2.897511 2.535037 -0.602376	6	-3.344241 2.465365 0.489956
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6	-2.607158 0.789756 -1.274073	6	2.451789 0.800050 1.532828
6	-3.556543 1.764745 -0.933767	6	3.578838 1.634547 1.609888
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1	-3.698217 2.058117 0.102586	1	4.162187 1.854922 0.719780
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6	-4.167571 2.011804 -3.269867	6	3.215034 1.925838 3.991150
1	-5.062098 3.130324 -1.652849	1	4.829345 2.842011 2.884333
1	-3.081844 0.756109 -4.657562	1	1.504358 0.889625 4.813885
1	-4.771244 2.484743 -4.041222	1	3.510067 2.363983 4.942011
6	-1.926721 0.732200 1.590376	6	2.706325 0.960854 -1.383969
6	-3.079163 0.378941 2.314216	6	3.945825 0.582228 -1.926500
6	-1.054548 1.699434 2.118107	6	2.058930 2.104997 -1.883306
6	-3.360023 0.994806 3.537259	6	4.529120 1.339636 -2.948074
1	-3.756985 -0.380054 1.931957	1	4.458140 -0.303778 -1.560469
6	-1.339103 2.315529 3.341225	6	2.647384 2.863827 -2.898985
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	5 -2.642116 0.688317 -1.494675		5 3.167419 0.586968 1.267421
	5 -2.864626 0.596650 1.414624		5 3.317111 0.319225 -1.611970
	5 -2.753406 2.290486 0.904251		5 3.027913 2.016336 -1.221581
	5 -2.618864 2.346434 -0.873931		5 2.935878 2.179260 0.539394
	5 -5.164512 1.154415 -0.211758		5 5.594295 1.256181 -0.123774
	5 -4.190896 -0.069826 -1.075038		5 4.793994 -0.006715 0.849720
	5 -4.333639 -0.121102 0.716912		5 4.884376 -0.172490 -0.922835
	5 -4.120823 1.652649 -1.579908		5 4.521273 1.721291 1.237755
	5 -4.195420 2.651734 -0.090906		5 4.445870 2.621900 -0.311480
	5 -4.342525 1.563783 1.329840		5 4.672134 1.451134 -1.651042
	1 -1.952139 0.292809 -2.373402		1 2.559846 0.169480 2.190541
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	1 -4.845542 -1.043579 1.248132		1 5.459249 -1.088215 -1.407323
	1 -4.549143 2.008601 -2.629573		1 4.920166 2.197094 2.250975
	1 -4.680413 3.736977 -0.092992		1 4.798897 3.753759 -0.398188
	1 -4.929326 1.858526 2.320222		1 5.181445 1.732067 -2.687295
28	-0.754001 -0.411693 -0.038447	28	0.567482 0.153559 -0.196999
15	1.313442 0.232122 -0.026999	15	-1.727144 0.121899 0.034482
6	-0.721663 -2.303795 -0.172814	6	1.299877 -1.593231 -0.134308
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6	0.258704 -3.439323 -0.289433	6	3.530148 -3.547830 1.565257
1	-0.233520 -4.295375 -0.763214	1	2.552171 -3.709301 2.030934
1	1.078059 -3.145781 -0.950852	1	4.081607 -4.494357 1.598032
6	0.844928 -3.879787 1.063983	1	4.074035 -2.819740 2.173628

Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 1.527951 -4.723362 0.916500		1 -0.629130 -2.527366 0.173598
	6 -2.957231 -4.529248 -0.152018		6 0.121721 -3.168878 -1.745829
	1 -2.602000 -4.715221 -1.169910		1 -0.275872 -2.336100 -2.332456
	1 -2.219418 -4.926554 0.550678		1 1.062512 -3.484944 -2.208319
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	6 3.635605 -1.302318 -0.716279		6 -3.694585 -1.708836 -0.931659
	6 1.958492 -0.994397 -2.437269		6 -2.462348 -0.441306 -2.590299
	6 4.407713 -2.054454 -1.610871		6 -4.386671 -2.366256 -1.956583
	1 3.995865 -1.152672 0.297210		1 -3.908334 -1.965909 0.101829
	6 2.736072 -1.732853 -3.332041		6 -3.163009 -1.089261 -3.609320
	1 0.994849 -0.604955 -2.760899		1 -1.703822 0.295234 -2.849964
	6 3.964194 -2.266630 -2.919803		6 -4.127898 -2.055314 -3.294667
	1 5.355431 -2.473619 -1.280196		1 -5.128454 -3.120686 -1.704074
	1 2.378411 -1.900711 -4.345449		1 -2.948697 -0.847216 -4.647832
	1 4.566451 -2.849538 -3.613080		1 -4.668885 -2.565151 -4.088690
	6 2.043852 0.192536 1.661300		6 -2.387365 -0.368479 1.676730
	6 3.260631 0.836915 1.951360		6 -3.701839 -0.055573 2.069172
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	6 1.881376 -0.494392 3.990045		6 -2.002791 -1.387412 3.852045
	1 0.400742 -0.942206 2.488230		1 -0.512232 -1.250194 2.301008
	6 3.099268 0.134608 4.266887		6 -3.314386 -1.084806 4.230465
	1 4.729364 1.302442 3.456589		1 -5.180341 -0.169338 3.631611
	1 1.335313 -1.002921 4.781438		1 -1.336377 -1.896035 4.544941
	1 3.507571 0.114197 5.274924		1 -3.674158 -1.360960 5.219161
	6 1.619225 1.976452 -0.552714		6 -2.169757 1.907562 -0.098914
	6 2.462258 2.316901 -1.621673		6 -3.238309 2.396874 -0.867023
	6 0.990380 3.002706 0.174646		6 -1.370069 2.816049 0.620415
	6 2.670563 3.660759 -1.958335		6 -3.502207 3.770299 -0.911117
	1 2.967266 1.545474 -2.194843		1 -3.869170 1.714820 -1.430280
	6 1.207210 4.341159 -0.156045		6 -1.635698 4.187053 0.574537
	1 0.332235 2.759694 1.004120		1 -0.545172 2.455924 1.235179
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	6 -1.072872 -1.694101 0.018296		6 1.269023 -0.854433 -0.119815
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	1 -1.581348 -3.737931 -0.267455		1 1.390801 -2.952699 0.277123
	1 0.069337 -3.330279 -0.731486		1 -0.251652 -2.351160 0.238633
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	1 0.023228 -4.721565 1.335530		1 0.152310 -3.711742 -1.775410
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	1 3.724964 -2.452286 0.410853		1 -3.510702 -2.833790 0.114230
	6 2.152706 -2.852453 -3.119613		6 -3.157810 -1.749401 -3.600076
	1 1.017668 -1.081753 -2.662711		1 -2.220158 0.034334 -2.851716
	6 3.097187 -3.780115 -2.660836		6 -3.747488 -2.979281 -3.279173
	1 4.382339 -4.350326 -1.020652		1 -4.316257 -4.318712 -1.682759
	1 1.706851 -2.966658 -4.105140		1 -3.052428 -1.447246 -4.639599
	1 3.389956 -4.617729 -3.289973		1 -4.105050 -3.635763 -4.069264
	6 2.503141 -0.340806 1.640043		6 -2.602011 -0.813421 1.680306
	6 3.881884 -0.179909 1.869923		6 -3.949137 -0.937295 2.067305
	6 1.655963 -0.612325 2.726324		6 -1.590777 -1.151103 2.594268
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 -2.188737 0.990907 -0.681508		15 -2.015118 -0.056609 -0.125964
	6 -1.018988 1.520741 -0.605135		6 1.953982 0.872917 0.495401
	15 1.622922 -0.344025 0.157057		6 3.115678 0.208223 0.555493
	6 -3.620509 1.423971 -0.733325		6 4.503680 0.802251 0.639342
	1 -3.645413 2.253530 -1.453366		1 4.449143 1.749676 1.187400
	1 -4.280722 0.653818 -1.129626		1 5.151508 0.138305 1.224425
	6 -4.141949 1.928914 0.629017		6 5.155351 1.066063 -0.736270
	1 -3.502167 2.751492 0.971157		1 5.190972 0.135140 -1.313836
	1 -4.052766 1.131300 1.374662		1 4.517999 1.758511 -1.301504
	6 -5.599650 2.403117 0.550704		6 6.570911 1.648169 -0.618396
	1 -6.233213 1.573096 0.210990		1 6.534482 2.575110 -0.030155
	1 -5.686636 3.188716 -0.211884		1 7.203455 0.950963 -0.052787
	6 -6.126348 2.932131 1.891163		6 7.217415 1.933256 -1.980491
	1 -5.534865 3.786362 2.241019		1 6.626409 2.654702 -2.557093
	1 -7.167816 3.261073 1.805544		1 8.225400 2.346753 -1.863828
	1 -6.084139 2.158637 2.666912		1 7.300193 1.018744 -2.579582
	6 2.599433 1.216233 0.244981		6 -2.300218 0.659117 -1.801737
	6 2.752338 1.954669 -0.942107		6 -3.397616 1.473643 -2.124546
	6 3.226469 1.667751 1.415684		6 -1.346606 0.373559 -2.797000
	6 3.528145 3.114232 -0.959669		6 -3.542705 1.984287 -3.419388
	1 2.269895 1.622696 -1.858942		1 -4.139491 1.721221 -1.707755
	6 3.999662 2.835637 1.397409		6 -1.498279 0.875996 -4.093040
	1 3.130087 1.111098 2.343173		1 -0.483057 -0.245834 -2.562138
	6 4.154802 3.558933 0.211554		6 -2.597080 1.684611 -4.406768
	1 3.636493 3.675261 -1.884869		1 -4.395803 2.616884 -3.654850
	1 4.484167 3.172313 2.311451		1 -0.755613 0.641467 -4.852388
	1 4.757882 4.464151 0.198362		1 -2.713116 2.082388 -5.412506
	6 1.733219 -1.074877 1.843260		6 -3.066448 0.923346 1.025883
	6 2.510210 -2.203179 2.145938		6 -4.453966 0.720888 1.138557
	6 0.956249 -0.487958 2.859597		6 -2.455771 1.908827 1.819530
	6 2.523622 -2.724047 3.445683		6 -5.213443 1.496561 2.018934
	1 3.100498 -2.689338 1.375140		1 -4.944737 -0.048578 0.547779
	6 0.980554 -1.001506 4.158254		6 -3.216875 2.686607 2.698683
	1 0.327863 0.372527 2.638181		1 -1.382117 2.071278 1.759873
	6 1.765480 -2.122964 4.455093		6 -4.597047 2.482406 2.799769
	1 3.126971 -3.602285 3.664544		1 -6.285370 1.328667 2.096923
	1 0.378429 -0.533576 4.933927		1 -2.729267 3.443992 3.308130
	1 1.778502 -2.529100 5.464081		1 -5.188886 3.082323 3.487635
	6 2.692745 -1.365942 -0.939755		6 -2.853919 -1.697024 -0.170112
	6 4.089985 -1.381216 -0.765690		6 -3.326944 -2.271994 -1.359474
	6 2.128968 -2.108930 -1.986512		6 -2.990536 -2.409205 1.035030
	6 4.899317 -2.143999 -1.610029		6 -3.930524 -3.535474 -1.343335
	1 4.551900 -0.792460 0.022994		1 -3.234514 -1.741467 -2.302779
	6 2.941731 -2.868026 -2.836801		6 -3.599726 -3.665689 1.049898
	1 1.057542 -2.090785 -2.145402		1 -2.632332 -1.981834 1.968916
	6 4.326512 -2.890658 -2.648452		6 -4.069814 -4.234719 -0.140671
	1 5.976896 -2.150346 -1.461673		1 -4.293297 -3.968272 -2.273102
	1 2.489404 -3.437272 -3.645789		1 -3.701474 -4.202456 1.990545
	1 4.958557 -3.479813 -3.309321		1 -4.540016 -5.215541 -0.129198
	6 -0.505848 2.889097 -0.696546		6 1.488319 2.243159 0.624175
	6 -0.509346 3.562115 -1.933860		6 1.578686 2.961354 1.846213
	6 -0.039672 3.567225 0.444775		6 0.739581 2.814287 -0.436569

Species	Cartesian coordinates	Species	Cartesian coordinates
	6 -0.070738 4.886735 -2.021092		6 0.987458 4.213840 1.975194
	1 -0.858008 3.043725 -2.824259		1 2.121258 2.520654 2.679132
	6 0.388867 4.893284 0.353957		6 0.133682 4.070440 -0.290876
	1 -0.021832 3.054640 1.403223		1 0.683958 2.293702 -1.390356
	6 0.376800 5.559501 -0.877828		6 0.260282 4.773157 0.907873
	1 -0.081843 5.394040 -2.983581		1 1.082428 4.761392 2.910460
	1 0.740896 5.405462 1.246713		1 -0.427760 4.496192 -1.119107
	1 0.716232 6.590564 -0.946577		1 -0.203681 5.750338 1.020258
TSI_IIIa	6 -2.021601 -1.539020 -0.217165	INT1_IIIa	6 -2.718189 1.476228 0.147138
	6 -0.636441 -2.280860 -0.082228		6 -1.024591 1.609868 0.168506
	5 -1.732039 -2.390180 1.243640		5 -1.899547 2.018055 -1.268750
	5 -1.342551 -2.196926 -1.653162		5 -1.925574 1.965645 1.596741
	5 -0.543851 -3.665617 -1.069358		5 -0.576041 2.985432 1.079324
	5 -0.779697 -3.783304 0.698476		5 -0.557955 3.016250 -0.690543
	5 -3.379496 -3.892299 -0.562192		5 -3.036476 4.222365 0.188389
	5 -3.325296 -2.428266 0.454479		5 -3.440614 2.745444 -0.729386
	5 -3.083763 -2.302325 -1.322177		5 -3.452200 2.720844 1.051484
	5 -2.543660 -3.942404 1.024619		5 -2.074626 3.777083 -1.259574
	5 -1.811365 -4.737605 -0.409211		5 -1.255798 4.396048 0.209554
	5 -2.158358 -3.746731 -1.865081		5 -2.100060 3.727979 1.640889
	1 -1.512047 -1.777374 2.232603		1 -1.850065 1.289962 -2.197733
	1 -0.884393 -1.463551 -2.463729		1 -1.896451 1.206522 2.501723
	1 0.491207 -3.983658 -1.548378		1 0.428930 2.949506 1.700995
	1 0.097187 -4.185983 1.387011		1 0.462473 2.994728 -1.291863
	1 -4.414768 -4.449716 -0.736610		1 -3.770959 5.157084 0.199892
	1 -4.244165 -1.885605 0.958054		1 -4.424426 2.510673 -1.345811
	1 -3.842921 -1.670756 -1.971650		1 -4.443550 2.498272 1.655556
	1 -2.962508 -4.542578 1.960718		1 -2.122082 4.377741 -2.283926
	1 -1.705017 -5.919723 -0.473616		1 -0.713305 5.453523 0.233831
	1 -2.304551 -4.207599 -2.950487		1 -2.170967 4.294798 2.683076
	28 -0.317323 -0.399908 -0.043228		28 -0.178866 -0.095988 0.119140
	6 -2.251059 0.584841 -0.074707		15 2.152706 -0.016489 -0.007179
	6 -1.171939 1.300080 -0.120492		6 -1.908675 -0.728805 -0.090032
	15 1.826014 -0.065968 0.055897		6 -3.037719 0.000322 0.084385
	6 -3.685689 0.751415 0.157330		6 -4.411642 -0.546206 -0.068093
	6 -4.581173 0.891875 -0.918000		6 -4.663081 -1.505296 -1.069397
	6 -4.166658 0.884053 1.474168		6 -5.476670 -0.164646 0.769948
	6 -5.931527 1.159980 -0.679563		6 -5.932807 -2.067805 -1.224928
	1 -4.216583 0.801923 -1.937513		1 -3.857932 -1.800385 -1.737415
	6 -5.517233 1.150988 1.707745		6 -6.746780 -0.727795 0.614372
	1 -3.478450 0.779003 2.309026		1 -5.313116 0.560863 1.559486
	6 -6.404109 1.286625 0.632122		6 -6.982444 -1.681082 -0.383156
	1 -6.614135 1.271855 -1.518951		1 -6.103885 -2.802766 -2.008685
	1 -5.877324 1.253939 2.728931		1 -7.553015 -0.422806 1.278183
	1 -7.456190 1.493367 0.815383		1 -7.972267 -2.115583 -0.504360
	6 -0.951840 2.748460 -0.180035		6 -1.531939 -2.127810 0.179499
	6 -1.731080 3.541805 -1.048118		6 -0.653029 -2.658131 -0.799690
	6 0.012444 3.383058 0.624498		6 -1.836990 -2.923677 1.315326
	6 -1.557226 4.926818 -1.097465		6 -0.125213 -3.950571 -0.661900
	1 -2.469550 3.066635 -1.688392		1 -0.440509 -2.080750 -1.697316
	6 0.171763 4.770376 0.586601		6 -1.319710 -4.208698 1.433989
	1 0.630428 2.792196 1.292827		1 -2.488073 -2.517089 2.085124
	6 -0.608801 5.549107 -0.276158		6 -0.459271 -4.727074 0.447411
	1 -2.165243 5.521325 -1.776117		1 0.537014 -4.345422 -1.428617
	1 0.914393 5.243041 1.225712		1 -1.578431 -4.816122 2.298649
	1 -0.476081 6.628106 -0.312155		1 -0.056112 -5.731608 0.552690
	6 2.430341 1.342600 -0.961448		6 2.987292 -1.133351 1.196355
	6 3.520564 2.148357 -0.596898		6 2.218785 -2.103138 1.861448
	6 1.785227 1.578497 -2.187638		6 4.363877 -1.047039 1.474274
	6 3.963187 3.165168 -1.449657		6 2.814367 -2.979195 2.775361
	1 4.026408 1.998419 0.352109		1 1.150079 -2.176444 1.675161
	6 2.236268 2.586478 -3.044263		6 4.958073 -1.921593 2.388052
	1 0.925153 0.976277 -2.472711		1 4.974565 -0.290536 0.987632
	6 3.326771 3.383052 -2.676739		6 4.185024 -2.891048 3.039494
	1 4.805227 3.786531 -1.152761		1 2.205185 -3.722645 3.284234
	1 1.729385 2.755215 -3.991699		1 6.023366 -1.843190 2.593674
	1 3.673906 4.173213 -3.338851		1 4.648141 -3.568015 3.754033
	6 2.382453 0.213991 1.787943		6 2.615867 -0.633857 -1.682368
	6 3.732607 0.088175 2.163792		6 1.809614 -0.231945 -2.763907
	6 1.430212 0.541295 2.767504		6 3.707319 -1.483099 -1.926687
	6 4.121705 0.311633 3.487045		6 2.100880 -0.654220 -4.064767
	1 4.482451 -0.200988 1.431516		1 0.951681 0.415503 -2.593026
	6 1.820910 0.763480 4.092374		6 3.991677 -1.913113 -3.227607
	1 0.378386 0.608772 2.499669		1 4.335714 -1.821168 -1.107921
	6 3.167538 0.653663 4.453685		6 3.192943 -1.497797 -4.299310
	1 5.168886 0.211933 3.763840		1 1.471185 -0.329951 -4.890283
	1 1.071622 1.012631 4.840412		1 4.838092 -2.573871 -3.401817
	1 3.471975 0.822106 5.484297		1 3.417072 -1.833328 -5.309442
	6 2.870308 -1.484374 -0.495376		6 3.079090 1.566252 0.181585
	6 3.632897 -1.441232 -1.672559		6 3.137797 2.159347 1.455665
	6 2.876102 -2.657807 0.279754		6 3.692029 2.214829 -0.901187
	6 4.392610 -2.550902 -2.064656		6 3.809272 3.369254 1.643584
	1 3.648701 -0.546338 -2.287422		1 2.669113 1.674537 2.309242
	6 3.641429 -3.758692 -0.107713		6 4.357414 3.432339 -0.712090
	1 2.288392 -2.715246 1.192165		1 3.662073 1.776852 -1.894763
	6 4.401510 -3.710033 -1.283683		6 4.419895 4.011611 0.558838
	1 4.979457 -2.502491 -2.979335		1 3.849794 3.812850 2.635973
	1 3.638670 -4.657359 0.505117		1 4.828895 3.922916 -1.560854

Species	Cartesian coordinates	Species	Cartesian coordinates
1	4.994485 -4.569987 -1.587280	1	4.939102 4.956260 0.704726

Table S7 The first three vibration frequencies for stationary points on potential energy surfaces from **COM1** and **R2** (or **R3**) to **INT1_I-IV**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)
R2a	59 197 239	R2e	92 152 176	R3a	11 98 151	R3b	-4 69 83
R3c	4 40 56	R3d	14 44 50	TS1_Ia	-224i 7 25	INT1_Ia	9 14 21
TS1_IHa	-247i 10 14	INT1_IHa	8 14 17	TS1_Ie	-204i 12 17	INT1_Ie	9 14 24
TS1_IHe	-258i 11 18	INT1_IHe	10 13 17	TS1_IIIa	-196i 16 23	INT1_IIIa	14 17 21
TS1_IIIb	-188i 6 16	INT1_IIIb	14 15 17	TS1_IVb	-172i 12 15	INT1_IVb	13 14 19
TS1_IIIc	-179i 9 14	INT1_IIIc	10 17 19	TS1_IVc	-158i 10 15	INT1_IVc	13 17 23
TS1_IIId	-162i 12 16	INT1_IIId	12 15 22				

Table S8 The total energies (E : a.u.), zero-point energies (ZPE : kcal·mol⁻¹) and Gibbs free energies [G and $G(\text{sol},383\text{K})$: a.u.] for stationary points on potential energy surfaces from **COM1** and **R2** (or **R3**) to **INT1_I-IV**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	E	ZPE	G	$G(\text{sol},383\text{K})$
R2a	-325.71802	76.04080	-325.62803	-325.62519
R3a	-234.62734	89.17045	-234.51889	-234.51846
TS1_Ia	-3201.02189	345.72535	-3200.53764	-3200.55409
INT1_Ia	-3201.06507	347.16313	-3200.58052	-3200.59825
TS1_IHa	-3201.01038	345.41795	-3200.52723	-3200.54314
INT1_IHa	-3201.05900	347.03841	-3200.57522	-3200.59277
TS1_IIIa	-3109.92155	358.71270	-3109.41680	-3109.43440
INT1_IIIa	-3109.98457	360.03206	-3109.47930	-3109.49783
R3b	-387.06468	104.43522	-386.93242	-386.93188
TS1_IIIb	-3262.35490	373.29035	-3261.83168	-3261.85138
INT1_IIIb	-3262.41732	374.88319	-3261.89187	-3261.91167
TS1_IVb	-3262.35616	373.35948	-3261.83190	-3261.85070
INT1_IVb	-3262.42263	375.09429	-3261.89661	-3261.91584
R3c	-465.69913	140.19201	-465.51786	-465.51984
TS1_IIIc	-3340.98934	409.09230	-3340.41282	-3340.43340
INT1_IIIc	-3341.05053	410.21039	-3340.47341	-3340.49494
TS1_IVc	-3340.98790	409.21176	-3340.41025	-3340.43239
INT1_IVc	-3341.05953	410.63686	-3340.48095	-3340.50253
R3d	-539.50227	119.67041	-539.35135	-539.35117
TS1_IIId	-3414.78892	388.32590	-3414.24318	-3414.26264
INT1_IIId	-3414.85759	390.03406	-3414.31064	-3414.33102
R2e	-306.51731	59.78178	-306.45255	-306.44975
TS1_Ie	-3181.82166	329.41509	-3181.36356	-3181.38144
INT1_Ie	-3181.86694	330.95351	-3181.40775	-3181.42505
TS1_IHe	-3181.80922	329.00778	-3181.35180	-3181.36862
INT1_IHe	-3181.85939	330.63477	-3181.40195	-3181.41902

Table S9 The optimized Cartesian coordinates (Å) for stationary points on potential energy surfaces from **INT1_I** and **R3** to products **P1** and **P2**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	Cartesian coordinates	Species	Cartesian coordinates
TS2_I_1a	6 -2.286294 2.433000 0.286967	INT2_I_1a	6 -2.284882 2.172417 -0.108998
	6 -0.669871 2.002196 0.028798		6 -0.571693 2.076491 -0.353706
	5 -1.596463 2.712220 -1.245668		5 -1.614135 2.739161 -1.566531
	5 -1.179504 2.621214 1.555560		5 -1.231039 2.391624 1.207806
	5 0.316241 3.177471 0.807161		5 0.156865 3.297121 0.586817
	5 0.054025 3.233677 -0.935336		5 -0.089691 3.516374 -1.147023
	5 -1.741228 5.145540 0.290703		5 -2.198790 4.931404 0.223270
	5 -2.721384 3.883253 -0.501146		5 -2.932744 3.620616 -0.739592
	5 -2.455990 3.831218 1.254066		5 -2.685594 3.410376 1.006101
	5 -1.219741 4.445579 -1.276142		5 -1.546311 4.515194 -1.395446
	5 -0.018429 4.745461 0.017264		5 -0.434264 4.868222 -0.032695
	5 -0.785508 4.353186 1.587346		5 -1.142550 4.162037 1.454434
	1 -1.925635 2.046158 -2.162348		1 -1.804438 2.128701 -2.560536
	1 -1.262796 1.888793 2.481732		1 -1.175033 1.553284 2.040328

Species	Cartesian coordinates	Species	Cartesian coordinates
	1 1.352078 2.837514 1.265187		1 1.230689 3.082482 1.037532
	1 0.899699 2.926411 -1.702199		1 0.802945 3.467030 -1.923756
	1 -2.140691 6.261778 0.387266		1 -2.794729 5.940187 0.429571
	1 -3.820747 3.961438 -0.940320		1 -4.022301 3.567261 -1.205605
	1 -3.375154 3.874277 2.002502		1 -3.608922 3.212111 1.723346
	1 -1.241402 5.045127 -2.302703		1 -1.657115 5.217783 -2.348412
	1 0.826926 5.576362 -0.082743		1 0.257087 5.836221 -0.010156
	1 -0.498140 4.885344 2.611019		1 -0.968715 4.612876 2.540833
	6 -3.227959 1.243852 0.406054		28 -0.096288 0.173629 -0.779126
	6 -2.464404 -0.067256 0.554883		6 -0.664605 -1.355347 -1.606232
	28 -0.557032 0.000849 -0.314573		6 -1.971947 -1.027253 -1.408772
	6 -1.968389 -0.840744 -1.457550		15 1.799267 -0.298543 0.171493
	6 -0.892563 -1.551376 -1.392506		6 -3.181936 0.922562 -0.136723
	15 1.671477 -0.333497 0.061851		6 -2.498032 -0.463026 -0.057335
	6 -3.199586 -0.581222 -2.266279		6 -3.048384 -1.328619 -2.461968
	1 -4.094152 -0.775764 -1.666511		1 -2.942540 -2.373714 -2.775637
	1 -3.240076 0.474094 -2.550702		1 -4.036191 -1.255743 -1.996894
	1 -3.902424 1.213550 -0.449629		6 -0.113981 -2.310725 -2.624043
	1 -3.868437 1.373731 1.286149		1 -0.700628 -2.234765 -3.549247
	6 -3.237634 -1.443825 -3.540969		1 0.911876 -2.041646 -2.889822
	1 -4.147992 -1.219232 -4.106877		6 -0.149178 -3.773517 -2.134126
	1 -2.380007 -1.241228 -4.189882		1 0.263454 -4.440076 -2.898876
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	1 0.776141 -2.794841 -1.939419		6 -3.024974 -0.430360 -3.712336
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	1 -5.592410 -4.205714 1.836573		1 -5.840987 -4.120050 2.036630
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	1 4.011677 5.652594 2.301015		1 -2.931001 -1.967806 4.923416
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -3.209606 2.366401 3.133223		1 4.616353 -3.238514 1.052126
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	6 2.721040 -3.364853 -3.321256		6 -4.881379 -0.411701 -2.474766
	1 4.718173 -2.564469 -3.518442		1 -5.959361 -1.017930 -0.703456
	1 0.679450 -3.933925 -2.891181		1 -3.547997 0.246918 -4.044978
	1 2.849511 -4.103734 -4.109248		1 -5.705372 -0.628616 -3.151053
	6 3.577831 0.864363 0.010992		6 -1.808741 0.005598 2.052480
	6 3.534485 1.980368 -0.844103		6 -2.515950 0.830374 2.947351
	6 4.737775 0.636567 0.769495		6 -1.466820 -1.293917 2.460513
	6 4.632101 2.838873 -0.953274		6 -2.871020 0.364163 4.217259
	1 2.636736 2.179694 -1.426147		1 -2.792006 1.841238 2.664427
	6 5.832635 1.503411 0.669910		6 -1.826194 -1.759852 3.729422
	1 4.793113 -0.213630 1.444066		1 -0.941337 -1.962434 1.789035
	6 5.784685 2.603676 -0.193249		6 -2.525907 -0.932636 4.614134
	1 4.583068 3.695492 -1.622046		1 -3.415682 1.017769 4.895258
	1 6.722446 1.316711 1.267447		1 -1.553674 -2.771092 4.023944
	1 6.636276 3.276264 -0.269313		1 -2.798761 -1.293177 5.603646
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	5 -2.487217 0.210116 1.074794		5 -2.305117 0.054297 1.070932
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	5 -3.517605 -1.138188 1.618228		5 -3.113271 -1.493236 1.390668
	5 -5.766149 0.211650 0.418004		5 -5.630445 -0.252261 0.724123
	5 -5.075364 1.296404 1.672722		5 -4.918091 0.649387 2.102551
	5 -3.656809 0.458146 2.391602		5 -3.345829 -0.117211 2.497651
	1 -4.669003 -0.183485 -1.981480		1 -4.806393 -0.021803 -1.797652
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -5.833231 -0.967145 2.769580		1 -5.279801 -1.871662 2.765123
	1 -5.208367 -2.343320 0.061956		1 -4.826601 -2.591354 -0.202990
	1 -3.005124 -2.090873 2.094304		1 -2.447497 -2.448736 1.596726
	1 -6.916347 0.202234 0.125024		1 -6.798319 -0.358982 0.542599
	1 -5.735251 2.070205 2.285824		1 -5.581542 1.199225 2.919286
	1 -3.292069 0.625143 3.508672		1 -2.868199 -0.124873 3.584034
	6 -2.353538 -1.819056 -0.832993		6 -2.211095 -1.501210 -1.279877
	6 -1.051674 -2.089070 -0.476913		6 -0.847667 -1.549715 -1.272490
	6 -2.260566 1.455560 -1.437838		28 -0.217280 0.058688 -0.640649
	6 -0.711092 1.418996 -1.295398		6 -2.548391 1.806863 -1.169860
	28 -0.465229 -0.325880 -0.309733		6 -1.011008 1.851913 -1.337122
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	1 -4.121840 -2.502297 -1.891550		6 2.311757 -0.059548 2.985773
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	1 -0.181246 -5.445745 -0.306062		1 2.792944 0.363899 5.042444
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	1 -2.926292 -1.036796 -3.550949		6 3.081545 -0.168025 -0.888988
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	6 2.184819 0.768800 1.535383		6 3.884779 0.415054 -3.107898
	6 1.333856 1.805433 1.947346		1 1.807409 0.120391 -2.610873
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	1 4.081932 -0.215910 1.916426		1 6.472943 0.230904 -0.895098
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	1 1.038893 3.462550 3.291430		6 1.922276 -2.293244 0.803596
	1 4.754349 1.318190 3.721738		6 0.967734 -2.834106 1.685954
	1 3.237251 3.166736 4.430841		6 2.995497 -3.095338 0.86180
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	1 3.835589 -2.308627 -0.660507		6 2.179685 -4.932314 1.747146
	6 2.207923 -3.674705 2.589274		1 0.359491 -4.539936 2.849507
	1 0.903201 -1.968603 2.490720		1 3.953658 -5.021519 0.517764
	6 3.264777 -4.371312 1.987124		1 2.279853 -5.952163 2.111731
	1 4.659727 -4.408806 0.338138		1 -2.953393 2.807473 -0.974653
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	6 4.278829 0.384284 -3.583240		1 2.315604 4.764909 -2.023156
	1 5.605834 1.496897 -2.290967		1 1.647346 6.360222 -2.218984
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	1 1.637524 2.415025 -2.278546		1 -0.380803 -2.396630 -3.180111
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	1 -0.784483 5.470086 0.681903		6 -0.085357 -3.968706 -1.719478
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	1 1.398946 6.225640 -0.263952		1 -1.106965 -4.358970 -1.723938
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	1 -4.774405 1.424346 -1.191305		1 4.843858 -1.361246 -1.426605
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -5.604240 -2.598040 1.592595		1 5.850862 0.143730 3.191274
	1 -5.125329 -1.578163 -1.252870		1 5.346801 -2.340131 1.346157
	1 -2.779835 -2.682481 0.288101		1 3.100420 -1.351760 3.005595
	1 -6.904821 0.013534 0.601487		1 6.984805 0.111684 0.321159
	1 -5.673242 -0.110640 3.433128		1 5.610786 2.647256 1.385803
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	6 -1.032230 0.167360 -1.622114		28 -0.105751 -0.914356 -0.184404
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	6 1.375749 -0.642535 2.942988		6 -2.189892 2.368959 2.387691
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	6 2.703640 -2.419446 -1.812148		6 -4.483443 0.292195 0.652518
	6 0.466055 -2.881841 -1.012721		6 -3.490360 -1.165433 -1.001499
	6 2.630458 -3.536278 -2.654459		6 -5.735382 -0.279733 0.403074
	1 3.607903 -1.817693 -1.808877		1 -4.398988 1.073798 1.402543
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	6 2.922830 1.546369 -0.656025		5 0.919589 -1.059471 0.888794
	6 4.088255 2.123122 -0.125126		5 1.611498 -2.335092 -0.126933
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	1 4.588358 1.663625 0.723487		5 3.116854 0.680452 0.198862
	6 2.822127 3.341875 -2.302290		5 2.243569 -0.081324 1.551188
	1 1.372250 1.750639 -2.147632		5 3.822957 -0.607288 -0.814501
	6 3.986870 3.907959 -1.767752		5 3.386596 -2.181819 -0.076296
	1 5.516659 3.734752 -0.251589		5 2.412101 -1.856284 1.393287
	1 3.222322 3.813977 -3.145558		1 2.105051 0.925468 -2.210057
	1 4.397119 4.820625 -2.194776		1 -0.154451 -1.103514 1.363936

Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 4.083691 -0.954297 1.903181		1 2.390163 -2.022190 -2.568973
	6 2.285666 0.423946 2.754522		1 4.760446 -0.717944 1.634557
	6 4.607901 -1.064762 3.197312		1 3.539878 1.778903 0.291426
	1 4.584790 -1.460178 1.081976		1 2.061064 0.508900 2.558236
	6 2.814996 0.323760 4.044532		1 4.818922 -0.422120 -1.432003
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -1.292771 2.141331 1.414936		1 7.800871 -1.614553 2.768869
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	6 -1.655884 2.564540 -2.362131		6 -4.981372 0.467632 -0.100079
	6 -1.121252 0.424902 -3.361548		6 -3.415602 1.059690 -1.849632
	6 -2.572469 2.811023 -3.386947		6 -6.040860 0.895637 -0.902764
	1 -1.518772 3.297457 -1.572163		1 -5.193380 0.051480 0.881857
	6 -2.032927 0.674128 -4.388859		6 -4.478350 1.482739 -2.656928
	1 -0.542738 -0.496474 -3.364022		1 -2.400833 1.119082 -2.228949
	6 -2.765145 1.868716 -4.404498		6 -5.791519 1.406283 -2.183964
	1 -3.139925 3.739257 -3.389744		1 -7.060865 0.824793 -0.531378
	1 -2.170983 -0.060943 -5.178922		1 -4.276227 1.869803 -3.653175
	1 -3.478191 2.062870 -5.202771		1 -6.618088 1.735470 -2.009941
TS4_I_1b	6 -2.689519 -0.935226 -1.692358	TS2_I_2b	6 -2.056238 -1.484721 -1.967072
	6 -1.539838 -1.644900 -0.696858		6 -2.404495 -0.030448 -0.932664
	5 -1.088412 -1.058632 -2.335079		5 -3.502814 -1.341583 -1.082552
	5 -3.145846 -2.251199 -0.670389		5 -1.498041 0.084036 -2.406581
	5 -1.751472 -3.347975 -0.701507		5 -2.772950 1.256522 -2.012066
	5 -0.475246 -2.628416 -1.728660		5 -4.056690 0.354770 -1.184610
	5 -2.780639 -3.131117 -3.393096		5 -3.871096 -0.665194 -3.876654
	5 -2.507599 -1.372520 -3.347936		5 -3.442479 -1.991904 -2.761344
	5 -3.768859 -2.096815 -2.328961		5 -2.162094 -1.084611 -3.599202
	5 -1.110607 -2.480342 -3.389740		5 -4.723416 -0.847964 -2.304788
	5 -1.523061 -3.908129 -2.384268		5 -4.246437 0.773659 -2.905772
	5 -3.176504 -3.669011 -1.729665		5 -2.639351 0.628294 -3.671611
	1 -0.471780 -0.056981 -2.493195		1 -3.676372 -2.055378 -0.158809
	1 -3.828458 -2.017842 0.259829		1 -0.338796 0.313673 -2.402738
	1 -1.456021 -3.939430 0.277446		1 -2.465583 2.347210 -1.677289
	1 0.672526 -2.775475 -1.445915		1 -4.681481 0.814519 -0.300290
	1 -3.253499 -3.647894 -4.352259		1 -4.392316 -0.894484 -4.919225
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	1 -0.385575 -2.524099 -4.329448		1 -5.852679 -1.201168 -2.206297
	1 -1.090589 -4.992530 -2.603600		1 -5.043399 1.593124 -3.229033
	1 -3.922451 -4.561173 -1.490918		1 -2.267040 1.326221 -4.557263
	28 0.150124 -0.793669 -0.389652		6 -1.002910 -2.447732 -1.449505
	15 2.096847 0.218680 -0.139002		6 -0.483361 -2.036368 -0.075212
	6 -2.243896 1.213764 -0.343372		6 -2.163201 0.694523 0.894338

Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 -2.040013 0.423817 0.966512	15	1.707396 0.591615 -0.066086
	1 -2.247791 2.051019 2.339186	1	-1.304754 -2.095946 0.647961
	1 -2.109464 0.483906 3.110660	6	0.594755 -2.912353 0.454699
	6 -1.361902 -0.763265 0.903517	6	0.838559 -2.977329 1.846533
	1 -3.300154 1.041545 -2.223865	6	1.817527 -3.830257 2.341122
	1 -4.181671 0.373240 -0.863078	1	0.251046 -2.361415 2.522789
	6 -4.104278 0.964718 2.427828	6	2.248726 -4.496373 0.083952
	1 -4.610520 1.509994 1.627954	6	2.549527 -4.617068 1.440693
	1 -4.386686 1.423453 3.382513	1	2.009609 -3.885684 3.410600
	1 -4.481091 -0.062360 2.427712	1	2.790411 -5.092222 -0.651588
	1 -1.262489 1.266658 -0.826707	1	3.323368 -5.302261 1.776949
	6 -2.673252 2.668474 -0.181444	7	1.303135 -3.678639 -0.406286
	6 -1.704162 3.653391 0.074053	1	-1.441330 -3.454724 -1.424519
	6 -2.098114 4.985208 0.202981	1	-0.191953 -2.488967 -2.177927
	1 -0.656555 3.375430 0.161977	6	-0.906844 2.772043 1.744583
	6 -4.344529 4.259659 -0.203364	1	0.167499 2.920850 1.877430
	6 -3.453230 5.301071 0.063626	1	-1.342391 2.617718 2.743336
	1 -1.362397 5.761867 0.400644	6	-1.512358 4.052487 1.133060
	1 -5.407515 4.464769 -0.329778	1	-1.092456 4.254650 0.144957
	1 -3.811861 6.323529 0.150147	1	-1.293490 4.910254 1.777865
	7 -3.974040 2.974874 -0.324186	1	-2.598701 3.970710 1.031110
	6 -1.208276 -1.695082 2.068771	6	-3.234269 0.317803 1.832681
	6 0.067972 -2.119208 2.484391	6	-4.145551 1.310221 2.249249
	6 -2.320730 -2.198775 2.771536	6	-3.308765 -0.951644 2.435220
	6 0.231456 -2.989676 3.564946	6	-5.096205 1.041745 3.236301
	1 0.942681 -1.752826 1.955837	1	-4.112429 2.293271 1.787900
	6 -2.163864 -3.075118 3.849263	6	-4.267770 -1.221925 3.415178
	1 -3.322425 -1.912793 2.469795	1	-2.607572 -1.730275 2.153894
	6 -0.885772 -3.475359 4.254089	6	-5.165937 -0.228195 3.821289
	1 1.232869 -3.290150 3.866243	1	-5.788529 1.823439 3.541425
	1 -3.043757 -3.448474 4.369251	1	-4.307038 -2.210732 3.867010
	1 -0.762501 -4.159344 5.091007	1	-5.910926 -0.440808 4.584701
	6 2.267693 1.706126 -1.227686	6	2.634399 0.087286 1.443365
	6 2.521523 2.995228 -0.733472	6	3.955812 -0.383203 1.404562
	6 2.088966 1.535632 -2.613870	6	1.989233 0.206602 2.687352
	6 2.596696 4.089665 -1.605342	6	4.622612 -0.717761 2.588967
	1 2.668104 3.155242 0.330976	1	4.471134 -0.494889 0.454873
	6 2.175869 2.624870 -3.483490	6	2.660332 -0.113340 3.869933
	1 1.895310 0.545688 -3.021460	1	0.957186 0.545120 2.734344
	6 2.425752 3.908998 -2.980993	6	3.980507 -0.578016 3.823566
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	1 2.487174 4.758819 -3.657202	1	4.502219 -0.834302 4.743072
	6 2.538213 0.857498 1.539432	6	2.767797 0.065647 -1.491736
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	6 3.556849 -0.816056 -0.604434	6	1.951971 2.424977 -0.140876
	6 4.708129 -0.295194 -1.219375	6	2.786682 3.123222 0.744285
	6 3.509972 -2.189222 -0.306699	6	1.315291 3.132475 -1.176406
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	1 4.765960 0.761641 -1.466947	1	3.293760 2.599924 1.549847
	6 4.594391 -3.021194 -0.601623	6	1.521131 4.504844 -1.330951
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	6 5.736882 -2.493170 -1.214623	6	2.353557 5.196826 -0.440944
	1 6.671814 -0.711938 -2.005047	1	3.627404 5.031057 1.295996
	1 4.541698 -4.081231 -0.363017	1	1.026549 5.035072 -2.141921
	1 6.577810 -3.140603 -1.453460	1	2.508936 6.267112 -0.557490
INT2_I_2b	6 2.911271 -0.553837 0.641460	TS3_I_2b	6 2.713469 -0.552545 0.600692
	6 2.327818 -2.099699 -0.081962	6	2.219143 -2.183984 0.120958
	5 3.976931 -1.624039 -0.196493	5	3.879430 -1.721021 0.083359
	5 1.675048 -1.484169 1.370286	5	1.420687 -1.351534 1.392662
	5 2.018879 -3.219704 1.153184	5	1.802037 -3.081420 1.505064
	5 3.486696 -3.307406 0.154217	5	3.360001 -3.313373 0.684990
	5 4.181560 -2.029150 2.649387	5	3.809245 -1.595073 2.958947
	5 4.445557 -0.847026 1.341729	5	4.182759 -0.665401 1.486848
	5 2.978249 -0.750336 2.339955	5	2.629181 -0.425180 2.310552
	5 4.826012 -2.557735 1.059882	5	4.603893 -2.389169 1.561390
	5 3.595444 -3.543611 1.919945	5	3.303093 -3.231273 2.465488
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	1 4.386716 -1.293405 -1.251190	1	4.385697 -1.574272 -0.970638
	1 0.547255 -1.084352 1.393999	1	0.310598 -0.965968 1.259167
	1 1.109071 -3.951974 0.995199	1	0.919274 -3.855551 1.394979
	1 3.606618 -4.113516 -0.704981	1	3.558674 -4.257880 -0.000930
	1 4.850133 -1.994560 3.630273	1	4.382926 -1.365889 3.973378
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	1 2.732447 0.204927 2.991693	1	2.318136 0.630272 2.746994
	1 5.946896 -2.911647 0.894875	1	5.738710 -2.737589 1.565485
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 1.372426 1.440306 0.300937		6 1.209285 1.169359 -0.552619
	6 1.515553 -2.019273 -1.389856		28 -0.073975 -0.155411 -0.513069
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	6 1.206401 2.924530 0.092490		6 -2.697625 -0.086442 1.453715
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	6 -3.377168 -2.602656 2.133985		1 -4.329671 -0.026339 4.451638
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	6 -4.979881 -0.814360 2.430180		6 -3.003074 1.260131 -1.100871
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	6 -0.986175 -2.505841 -1.543274		1 -3.974583 -3.598784 -2.982568
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	6 -2.912827 -4.490155 -1.804231		1 1.542639 2.377104 -2.279028
	1 -1.548838 -5.582008 -0.534673		1 -0.072820 2.510763 -1.635393
	1 -3.983005 -3.099656 -3.079352		6 1.361937 3.761709 -0.630779
	1 -3.636100 -5.298324 -1.875331		1 0.836508 3.874274 0.319001
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	6 3.610892 1.455558 -0.820535		6 3.640391 1.249683 -0.993530
	6 4.645743 2.219891 -0.254479		6 4.473192 2.179536 -0.348822
	6 3.533235 1.376104 -2.221821		6 3.922900 0.912033 -2.328264
	6 5.580947 2.873223 -1.064183		6 5.564586 2.746382 -1.014910
	1 4.719389 2.313304 0.825600		1 4.266119 2.466206 0.679081
	6 4.468251 2.025247 -3.034823		6 5.012698 1.477856 -2.997994
	1 2.729050 0.806226 -2.682361		1 3.284475 0.201459 -2.849003
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	1 6.372765 3.460533 -0.603757		1 6.197048 3.463556 -0.495972
	1 4.388404 1.947048 -4.117104		1 5.213865 1.200344 -4.030520
	1 6.226699 3.283598 -3.087204		1 6.688007 2.838346 -2.860471
	1 1.461667 4.794861 1.180187		1 1.092990 4.610846 -1.268793
INT3_I_2b	6 2.843422 -0.652401 0.305339	TS4_I_2b	6 2.564532 -2.187480 0.310172
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	5 1.739628 -1.640034 1.190805		5 1.807595 -1.271822 1.557872
	5 2.368665 -3.295243 1.169132		5 3.009790 -0.068355 2.041510
	5 3.847354 -3.291560 0.188332		5 4.448786 -0.293793 1.011583
	5 4.300258 -1.630868 2.496235		5 4.093464 -2.697628 2.573273
	5 4.400451 -0.604095 1.044925		5 3.905334 -3.112768 0.851184
	5 2.916809 -0.607266 2.023580		5 2.466318 -2.885830 1.871147
	5 5.047661 -2.259640 0.990761		5 5.126072 -1.914800 1.331024
	5 3.960486 -3.300699 1.967745		5 4.432796 -0.941556 2.669718
	5 2.633316 -2.270736 2.594904		5 2.785456 -1.553395 3.007943
	1 4.465976 -1.370215 -1.474990		1 4.419078 -1.635018 -1.251389
	1 0.587118 -1.395538 1.133388		1 0.653622 -1.052280 1.450285
	1 1.587687 -4.181435 1.075510		1 2.638545 1.014157 2.334929
	1 4.069165 -4.172879 -0.571776		1 5.066471 0.633243 0.625986
	1 4.941487 -1.369349 3.461176		1 4.522530 -3.491361 3.345432

Species	Cartesian coordinates	Species	Cartesian coordinates
	1 5.048443 0.371724 0.920764		1 4.090876 -4.151878 0.313074
	1 2.530360 0.380603 2.548336		1 1.697944 -3.775891 2.014673
	1 6.212267 -2.456763 0.872757		1 6.288396 -2.125615 1.212999
	1 4.347622 -4.263702 2.544902		1 5.115213 -0.457445 3.512699
	1 2.062018 -2.477548 3.614820		1 2.273067 -1.517180 4.078146
	28 -0.330951 -0.626653 -0.799549		6 1.673800 -2.746996 -0.794711
	15 -1.882128 0.432796 0.526092		6 1.016047 -1.764201 -1.785203
	6 1.064668 0.652522 -0.953298		6 2.291590 0.316698 -0.703134
	6 2.332626 0.540596 -0.485494		6 1.178623 -0.043902 -1.434645
	6 1.738953 -2.632287 -1.463262		28 -0.528232 -0.750846 -0.678289
	6 0.731669 -1.657859 -2.074589		15 -1.897307 0.480407 0.482707
	6 -0.633522 -2.102671 -2.319638		1 2.269907 -3.461851 -1.370968
	6 -1.368070 -2.718688 -1.267222		1 0.883848 -3.315395 -0.302262
	6 -2.534967 -2.037931 -3.640697		6 0.818593 0.747409 -2.706652
	6 -2.737245 -3.002964 -1.455429		1 0.065752 0.181528 -3.263341
	1 -0.848965 -3.123470 -0.401611		1 1.695756 0.801871 -3.363949
	6 -3.335379 -2.659368 -2.654853		6 0.264129 2.166171 -2.509852
	1 -2.980793 -1.767973 -4.599125		1 0.040627 2.609431 -3.487267
	1 -3.304243 -3.498608 -0.670160		1 0.974263 2.821719 -2.002020
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	1 1.235400 -3.571822 -1.221015		1 1.627000 -1.681113 -2.687372
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	1 1.137870 -1.105935 -2.916132		6 -0.700828 -2.384282 -3.594975
	6 0.651484 1.874432 -1.765996		6 -1.950301 -2.897467 -3.923729
	1 -0.334813 2.212081 -1.430649		1 0.006445 -2.101822 -4.370948
	1 1.333255 2.711177 -1.579083		6 -2.431251 -3.079597 -1.576056
	6 0.584581 1.628632 -3.286223		6 -2.837501 -3.259287 -2.893430
	1 1.564249 1.343131 -3.684561		1 -2.233217 -3.025647 -4.966259
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	1 0.270605 2.544747 -3.800001		1 -3.819786 -3.669999 -3.110507
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	6 3.347066 1.638370 -0.703612		6 3.116565 1.523818 -1.047872
	6 3.485071 2.688928 0.220081		6 3.972312 1.505912 -2.164514
	6 4.154603 1.657159 -1.853549		6 3.076960 2.691279 -0.264960
	6 4.402092 3.722896 0.006253		6 4.754046 2.618274 -2.494329
	1 2.864504 2.697223 1.112368		1 4.038257 0.608696 -2.776079
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	1 4.059092 0.861687 -2.588641		1 2.425631 2.727779 0.603232
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	1 4.488883 4.526907 0.734518		1 5.409561 2.578412 -3.362064
	1 5.690145 2.681683 -2.969829		1 3.809912 4.696456 0.032705
	1 5.920392 4.528017 -1.308865		1 5.309701 4.639607 -1.960009
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	6 -2.856879 0.360945 3.209824		6 -4.353947 -0.165452 1.830573
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	6 -3.239272 -0.283280 4.390543		6 -5.178618 -0.995271 2.597552
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	6 -4.561780 1.122928 -2.514032		6 -4.500492 3.427390 -0.921018
	1 -2.431123 0.957633 -2.259510		1 -3.343480 3.132391 0.868122
	6 -5.898892 0.743863 -0.532801		6 -4.311905 1.706457 -2.612334
	1 -4.819409 0.323928 1.278157		1 -2.973169 0.079613 -2.154724
	6 -5.815887 1.038822 -1.898416		6 -4.858057 2.919620 -2.174981
	1 -4.486933 1.341712 -3.576950		1 -4.917555 4.370714 -0.574656
	1 -6.870129 0.668840 -0.048404		1 -4.578842 1.307527 -3.588680
	1 -6.722049 1.195185 -2.479639		1 -5.552514 3.467010 -2.808678
	6 -1.470840 2.146091 1.079511		6 -1.253529 1.668007 1.748455
	6 -2.240528 3.268544 0.737446		6 -0.506173 2.780661 1.318318
	6 -0.322506 2.324125 1.872496		6 -1.417577 1.463627 3.128473
	6 -1.872053 4.544606 1.182649		6 0.035182 3.678646 2.241413
	1 -3.131850 3.158297 0.126553		1 -0.353291 2.956646 0.257400
	6 0.036621 3.595151 2.326139		6 -0.860709 2.355027 4.054384
	1 0.289802 1.468873 2.146236		1 -1.983848 0.611610 3.492949
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	1 -2.478941 5.404766 0.908183		1 0.595945 4.541436 1.887585
	1 0.921176 3.714884 2.948103		1 -0.998660 2.177647 5.118945
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TS2_I_3b	6 1.339454 2.892691 -0.542904	INT2_I_3b	6 -1.466634 2.694706 0.134713
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	5 0.723972 2.924586 1.046739		5 -0.901089 2.869126 -1.462257
	5 0.123931 2.961392 -1.724162		5 -0.218979 2.880701 1.272933
	5 -1.382782 3.179844 -0.845803		5 1.224762 3.355617 0.366070
	5 -1.011407 3.149340 0.875255		5 0.792161 3.352835 -1.345594
	5 0.318221 5.448211 -0.275844		5 -0.792924 5.385247 -0.048853
	5 1.563802 4.333523 0.344243		5 -1.896144 4.132061 -0.680530
	5 1.183663 4.364187 -1.391450		5 -1.458325 4.147605 1.040496
	5 0.044229 4.548522 1.252047		5 -0.461548 4.591781 -1.623346
	5 -1.279849 4.716892 0.060000		5 0.873249 4.902554 -0.464899
	5 -0.570194 4.591606 -1.579028		5 0.249122 4.605506 1.188582
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -1.736963 2.631371 1.656245		1 1.547955 2.988386 -2.181699
	1 0.501773 6.623247 -0.297740		1 -1.144752 6.518721 0.031481
	1 2.660118 4.580550 0.724274		1 -3.027415 4.245210 -1.018157
	1 2.025116 4.635015 -2.182119		1 -2.294774 4.268339 1.872227
	1 0.033210 5.062400 2.324352		1 -0.560868 5.145296 -2.670938
	1 -2.252425 5.365237 0.280790		1 1.737237 5.689451 -0.687153
	1 -1.024989 5.135908 -2.533330		1 0.653399 5.171037 2.153086
	28 0.180924 0.144512 -0.003047		28 0.139011 0.203591 -0.487162
	6 2.470980 1.920426 -0.832527		6 -0.878446 -1.236610 -1.009138
	6 1.948334 0.529075 -1.147867		6 -2.044960 -0.667777 -0.599584
	6 1.888895 -0.681626 0.803779		15 2.055055 -0.635581 0.081075
	6 0.857024 -1.451558 0.837874		6 -2.580052 1.675457 0.437291
	15 -1.943447 -0.657257 0.050983		6 -2.163170 0.204859 0.686416
	1 3.170148 1.888493 0.005723		6 2.138935 -2.462315 0.383909
	1 3.049898 2.286097 -1.687735		6 2.354871 -3.332987 -0.700232
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	6 -5.495779 1.840455 -1.638170		1 1.535350 0.744557 4.807535
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	7 4.254762 -0.053543 -1.662933		7 -4.334874 0.002125 1.855424
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	6 3.529374 0.495603 2.296919		6 -4.194863 -1.940426 -1.019540
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	6 5.754552 -0.413260 2.628188		6 -5.665062 -1.383985 -2.869026
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	1 6.213468 -2.190197 1.485392		1 -5.019941 0.270206 -4.100759
	1 6.727779 -0.369852 3.112135		1 -6.569775 -1.570218 -3.443619
	6 0.449377 -2.708430 1.560386		6 -0.714144 -2.332291 -2.018979
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	1 1.072075 -4.755416 1.919156		1 -0.651694 -1.143474 -3.848929
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TS3_I_3b	5 0.745430 3.763434 0.520673	INT3_I_3b	6 1.190288 2.650572 0.492924
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 -1.895530 -0.657146 -0.634898		6 3.013414 0.735776 0.554955
	6 -2.726041 1.484120 0.582641		6 1.941642 1.574700 1.282405
	6 -2.101237 0.069951 0.719745		6 3.732339 -0.080259 1.633623
	15 2.120288 -0.635956 0.003619		6 3.254139 -1.327343 2.061135
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	6 3.437355 -4.102831 -1.843756		6 5.038466 -1.396178 3.670472
	1 4.019043 -2.032167 -1.842517		1 6.313175 0.349562 3.603877
	6 1.566422 -4.689869 -0.424372		1 3.561603 -2.963646 3.440257
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	1 -3.234149 1.712122 1.521130		1 0.216247 -4.497280 1.677371
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	1 -2.593004 -3.413571 3.834962		1 -2.311380 0.082533 -2.692479
	1 -6.037216 -1.113010 2.640206		6 -5.662889 -0.227311 -3.213721
	1 -5.073746 -2.970615 4.001593		1 -7.111519 -0.738300 -1.692110
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	6 -3.671057 -2.404921 -1.075556		6 -3.807118 1.147036 1.785203
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	5 0.259880 2.651260 -1.257409		5 3.608056 -1.848817 -0.881187
	5 2.025722 3.197541 0.968386		5 2.252067 -1.074596 1.435642
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -3.380089 -4.454453 2.852871		1 -2.254210 -4.325067 2.604319
	1 0.089629 -4.861199 0.328171		1 -1.918046 -1.155978 5.505923
	1 -1.451148 -5.810652 2.045171		1 -2.302902 -3.564404 4.982108
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	6 -2.782407 0.159362 -2.766028		6 -4.082643 -0.210365 0.245600
	6 -3.281447 -2.154181 -2.264749		6 -2.776236 0.642979 -1.605551
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	1 -2.427020 1.139428 -2.456133		1 -4.153033 -0.583748 1.263661
	6 -3.689591 -2.350025 -3.589532		6 -3.936914 0.753083 -2.376672
	1 -3.322870 -2.987603 -1.568844		1 -1.816933 0.914912 -2.039403
	6 -3.652380 -1.290813 -4.502876		6 -5.173106 0.375966 -1.840860
	1 -3.167108 0.797371 -4.788194		1 -6.198075 -0.415051 -0.109640
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Species	Cartesian coordinates	Species	Cartesian coordinates
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5	3.379722 -2.098116 0.941640	5	2.848122 -2.641048 0.672509
5	4.699624 -1.799625 -0.208673	5	4.105455 -2.524204 -0.574095
5	5.033973 0.012896 2.014707	5	5.172274 -1.406552 1.860371
5	4.741654 0.990717 0.555452	5	5.095916 -0.105479 0.646101
5	3.416721 0.698173 1.701584	5	3.840708 -0.215158 1.899065
5	5.723052 -0.486228 0.435431	5	5.536537 -1.747873 0.136516
5	5.013286 -1.706240 1.544572	5	4.564365 -2.900134 1.103234
5	3.566131 -0.968479 2.309929	5	3.495132 -1.942125 2.176182
1	4.691307 0.142892 -1.941188	1	4.577192 -0.343473 -1.926401
1	1.236619 -0.646419 1.112219	1	1.314114 -0.674166 1.402056
1	2.807096 -3.127725 0.976496	1	1.985530 -3.439820 0.614405
1	5.049487 -2.629916 -0.977137	1	4.103965 -3.239309 -1.517751
1	5.704536 0.440839 2.896480	1	6.012474 -1.399231 2.699864
1	5.123127 2.087868 0.333196	1	5.824693 0.818637 0.564548
1	2.879417 1.593514 2.256674	1	3.660455 0.656622 2.679589
1	6.880063 -0.431076 0.176365	1	6.627401 -1.983331 -0.268292
1	5.668842 -2.533241 2.088976	1	4.953956 -3.983520 1.395000
1	3.175622 -1.256393 3.392952	1	3.113209 -2.323077 3.233856
6	2.334658 1.623204 -0.716823	6	2.878437 1.487845 -0.109619
6	1.022924 1.895622 -0.390624	6	1.535175 1.694322 -0.208621
6	2.292862 -1.548336 -1.652245	28	0.274664 0.154853 -0.286263
6	0.736401 -1.498301 -1.604365	6	1.875315 -1.277032 -1.691038
28	0.419975 0.134739 -0.468835	6	0.322732 -1.254613 -1.591434
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6	-1.714082 -1.334769 1.700295	6	-2.316665 -1.366771 1.448719
6	-1.893376 -2.681772 1.337084	6	-1.525737 -2.521672 1.538554
6	-1.561834 -1.020409 3.062569	6	-3.502606 -1.286564 2.203878
6	-1.938154 -3.682135 2.311498	6	-1.922950 -3.589334 2.351928
1	-2.013062 -2.958188 0.295482	1	-0.597109 -2.591596 0.983462
6	-1.596630 -2.024899 4.035387	6	-3.899642 -2.355261 3.010377
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1	-4.301586 -1.315567 0.626669	1	-0.389732 0.772180 2.863541
6	-3.795158 -0.236804 -3.070328	6	-3.109695 3.491924 2.337360
1	-1.828347 0.396439 -2.464636	1	-3.624818 2.439079 0.533885
6	-4.997096 -0.831644 -2.671292	6	-2.280960 3.539479 3.462185
1	-6.098141 -1.689768 -1.020468	1	-0.651167 2.584656 4.517175
1	-3.648879 0.061247 -4.106191	1	-3.871521 4.253707 2.186894
1	-5.792936 -0.994727 -3.394713	1	-2.394562 4.338802 4.191255
1	2.608535 -2.574617 -1.865482	1	2.139505 -2.136007 -2.317273
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6	0.164934 -4.999262 -0.657488	6	-2.281421 -3.850961 -2.495608
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1	0.686520 -5.713889 -0.019221	1	-3.252247 -3.911888 -2.982903
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6	0.391367 3.194927 -0.651505	6	3.902493 2.609096 -0.300991
6	0.906019 4.355107 -0.028526	1	3.361583 3.549865 -0.176620
6	-0.754909 3.335290 -1.459540	1	4.645036 2.580741 0.503193
6	0.304378 5.600703 -0.214874	6	4.635370 2.661244 -1.655973
1	1.780208 4.268733 0.613621	1	3.921488 2.678794 -2.486060
6	-1.340698 4.585115 -1.668718	1	5.306488 1.812033 -1.803463
1	-1.175753 2.458048 -1.941352	6	1.017593 3.030863 -0.589565
6	-0.817880 5.724794 -1.044041	6	0.658622 3.987980 0.382846
1	0.715168 6.477359 0.281818	6	0.799059 3.365724 -1.944305
1	-2.213555 4.669427 -2.312779	6	0.126676 5.228399 0.017113
1	-1.281976 6.696452 -1.197976	1	0.797957 3.752606 1.435485
6	3.052233 2.459362 -1.789063	6	0.266735 4.606519 -2.309870
1	2.818773 3.512848 -1.615874	1	1.058708 2.645212 -2.718155
1	4.134678 2.366503 -1.687356	6	-0.073655 5.549806 -1.331462
6	2.648211 2.106154 -3.231568	1	-0.135874 5.946775 0.791727

Species	Cartesian coordinates	Species	Cartesian coordinates
	1 1.571985 2.236267 -3.381031		1 0.119931 4.837927 -3.363636
	1 2.903233 1.072159 -3.484611		1 -0.489031 6.514529 -1.614409
	1 3.169562 2.758925 -3.940895		1 5.240346 3.573676 -1.714671
INT3_I_4b	6 -3.275556 -0.276608 0.296219	TS4_I_4b	6 3.380555 -0.085387 -1.253009
	6 -3.274209 0.486858 -1.269128		6 3.236695 0.004063 0.409793
	5 -4.535106 -0.589906 -0.869991		5 4.676811 0.602936 -0.362543
	5 -2.698105 1.341519 0.100032		5 2.574858 -1.360787 -0.433042
	5 -3.703307 2.137729 -1.125958		5 3.459258 -1.575328 1.081458
	5 -4.858217 0.937386 -1.732687		5 4.764320 -0.363271 1.124406
	5 -5.414148 1.378570 1.053664		5 5.268160 -2.119423 -1.108817
	5 -4.905473 -0.313942 0.847338		5 4.977114 -0.477045 -1.739962
	5 -3.747054 0.888680 1.461749		5 3.676463 -1.688590 -1.280522
	5 -5.911837 0.447949 -0.398803		5 5.885183 -0.683983 -0.225361
	5 -5.388029 2.157217 -0.548364		5 5.132478 -2.043860 0.673673
	5 -4.030725 2.417417 0.595362		5 3.765962 -2.665969 -0.298040
	1 -4.549118 -1.642410 -1.404761		1 4.806539 1.776897 -0.408934
	1 -1.539940 1.537157 0.183777		1 1.400973 -1.418094 -0.526515
	1 -3.167187 2.889797 -1.867216		1 2.851416 -1.849668 2.057122
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	1 -6.181030 1.673081 1.911330		1 5.989986 -2.870303 -1.678835
	1 -5.268866 -1.221654 1.504506		1 5.366237 0.010140 -2.747192
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	1 -3.791046 3.461947 1.105989		1 3.400660 -3.794908 -0.276839
	6 -1.010262 -1.413686 0.310664		6 2.534172 0.822716 -2.140466
	6 -2.306627 -1.382252 0.696995		6 1.421877 1.674887 -1.494762
	28 0.023153 -0.327051 -0.834699		6 2.320216 1.060342 0.968095
	15 1.563063 0.811434 0.450384		6 1.234804 1.520376 0.255538
	6 -2.877877 -2.464102 1.620275		28 -0.106905 0.397242 -0.730165
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	1 -2.043517 -2.901520 2.170350		1 3.213666 1.496769 -2.671030
	6 -2.317496 0.129918 -2.420110		1 2.074797 0.176212 -2.889146
	6 -1.238361 -0.914893 -2.197593		6 2.740168 1.685832 2.293047
	6 0.007508 -0.826712 -2.944521		1 3.816109 1.892051 2.270833
	6 0.720749 0.404275 -3.018875		1 2.253343 2.657954 2.380073
	6 1.769409 -1.944998 -3.954813		6 2.417613 0.879450 3.566287
	6 1.998046 0.415916 -3.616328		1 1.343938 0.685316 3.644527
	1 0.240420 1.348118 -2.771369		1 2.726221 1.447521 4.451842
	6 2.539474 -0.768308 -4.086563		1 2.936203 -0.082047 3.591646
	1 2.164035 -2.890090 -4.330822		1 1.762716 2.705653 -1.415034
	1 2.538469 1.352744 -3.728161		6 0.175671 1.719452 -2.354907
	1 3.517062 -0.803404 -4.559255		6 -0.473903 2.932484 -2.688198
	1 -1.872985 1.072870 -2.743898		6 -1.567131 2.904933 -3.542343
	1 -2.951816 -0.204187 -3.250797		1 -0.095629 3.873055 -2.298706
	1 -1.626952 -1.928953 -2.168451		6 -1.385713 0.511045 -3.608846
	6 -3.626082 -3.609417 0.910947		6 -2.034966 1.666333 -4.021779
	1 -3.940643 -4.361939 1.643974		1 -2.052674 3.831489 -3.840979
	1 -4.520856 -3.264798 0.386709		1 -1.737390 -0.469115 -3.927471
	1 -2.975527 -4.102491 0.181125		1 -2.885613 1.603861 -4.694765
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	6 -0.106215 -2.544388 0.679879		6 0.466701 2.693442 0.822711
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	6 0.516091 -2.618781 1.944254		6 -0.581857 2.479457 1.736393
	6 1.042165 -4.618313 0.072078		6 0.082506 5.099754 1.059200
	1 -0.265049 -3.532957 -1.241126		1 1.631888 4.247646 -0.148769
	6 1.377478 -3.671576 2.266535		6 -1.285620 3.547869 2.299271
	1 0.312605 -1.851174 2.684064		1 -0.837357 1.464163 2.018622
	6 1.647821 -4.679253 1.333097		6 -0.965757 4.866772 1.955304
	1 1.239400 -5.393833 -0.665678		1 0.361462 6.118480 0.797421
	1 1.837400 -3.703645 3.252348		1 -2.086848 3.347057 3.007575
	1 2.318267 -5.498292 1.584223		1 -1.516262 5.699407 2.387627
	6 1.580353 2.627306 0.067584		6 -1.547252 -2.638630 -0.349469
	6 2.220557 3.093681 -1.095359		6 -1.004225 -2.896367 -1.620703
	6 0.883463 3.552385 0.863047		6 -2.027194 -3.718643 0.411872
	6 2.171483 4.444956 -1.448646		6 -0.958760 -4.199443 -2.126368
	1 2.785152 2.407983 -1.719369		1 -0.604970 -2.074949 -2.210206
	6 0.829328 4.904724 0.506199		6 -1.975116 -5.023319 -0.090989
	1 0.386468 3.232685 1.773589		1 -2.438571 -3.549110 1.403494
	6 1.471050 5.357224 -0.650717		6 -1.444186 -5.267446 -1.362862
	1 2.683780 4.783746 -2.346686		1 -0.533243 -4.380895 -3.111146
	1 0.285836 5.602776 1.139248		1 -2.349226 -5.847781 0.512417
	1 1.430788 6.408834 -0.925575		1 -1.402131 -6.282443 -1.752146
	6 1.401264 0.781167 2.292722		6 -1.721898 -1.075050 2.065533
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	1 3.513475 0.609104 2.749333		1 -3.719552 -0.279388 2.324104
	6 -0.059117 0.866873 4.242868		6 -0.609168 -1.738507 4.130680
	1 -0.757353 0.891613 2.213138		1 0.283725 -1.887516 2.182203
	6 1.050753 0.782343 5.090906		6 -1.732756 -1.351403 4.873160
	1 3.202873 0.612716 5.189983		1 -3.722253 -0.514610 4.779720
	1 -1.062893 0.929366 4.657462		1 0.264077 -2.147775 4.634108
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	6 3.290180 0.256851 0.131924		6 -3.317465 -0.332328 -0.245226
	6 4.415747 1.078443 0.325270		6 -4.409807 -1.209431 -0.360597
	6 3.479182 -1.066880 -0.299654		6 -3.517837 1.035390 -0.498613
	6 5.702281 0.583570 0.093342		6 -5.675643 -0.726514 -0.709013

Species	Cartesian coordinates	Species	Cartesian coordinates
	1 4.293852 2.107038 0.655546 6 4.767851 -1.563864 -0.522229 1 2.619467 -1.713499 -0.458056 6 5.881542 -0.740004 -0.328620 1 6.563543 1.230462 0.245733 1 4.898445 -2.591759 -0.852984 1 6.883485 -1.124291 -0.507392		1 -4.279413 -2.273660 -0.184573 6 -4.785991 1.520899 -0.834976 1 -2.675663 1.720962 -0.436142 6 -5.868545 0.640863 -0.941968 1 -6.510454 -1.418597 -0.798135 1 -4.923999 2.583317 -1.024010 1 -6.853903 1.015115 -1.211558
P1b	6 0.714164 0.966674 0.002883 6 -0.552610 1.717126 0.743855 5 1.038250 1.939931 1.399840 5 -0.588318 1.574505 -0.973443 5 -1.115095 3.058739 -0.164044 5 -0.121508 3.279714 1.296115 5 1.626136 3.404259 -0.997972 5 2.100889 1.997385 -0.014912 5 1.103202 1.764874 -1.471902 5 1.577313 3.503996 0.791453 5 0.247241 4.208984 -0.182506 5 -0.042757 3.135007 -1.588594 1 1.286077 1.367170 2.401617 1 -1.318305 0.790098 -1.455165 1 -2.276308 3.285238 -0.125651 1 -0.623830 3.655016 2.300759 1 2.433477 3.990940 -1.640525 1 3.168454 1.500699 0.058951 1 1.501712 1.109340 -2.370501 1 2.335199 4.151571 1.434763 1 0.054859 5.379114 -0.232064 1 -0.435310 3.516837 -2.641105 6 -0.205758 -1.248539 0.738354 6 0.807656 -0.530776 0.204628 6 -1.542426 -0.651561 1.152168 6 -1.480378 0.837274 1.572852 1 -2.488588 1.254605 1.539217 1 -1.148003 0.888931 2.612114 1 -1.847726 -1.179307 2.064522 6 -2.693027 -0.948652 0.172502 6 -2.523742 -1.605679 -1.053438 6 -4.974026 -0.810662 -0.160165 6 -3.643870 -1.867772 -1.846183 1 -1.534315 -1.898445 -1.391328 6 -4.901464 -1.462205 -1.395084 1 -5.934787 -0.475978 0.230733 1 -3.532490 -2.375177 -2.802087 1 -5.801704 -1.641246 -1.977161 7 -3.905197 -0.562722 0.609651 6 -0.077447 -2.737672 1.013649 1 -1.034907 -3.222558 0.789034 1 0.666499 -3.187154 0.352176 6 0.297417 -3.048557 2.477840 1 0.313290 -4.131504 2.640128 1 1.288021 -2.654409 2.722706 1 -0.421643 -2.619334 3.183993 6 2.105479 -1.172309 -0.195939 6 3.152323 -1.319233 0.728881 6 2.288825 -1.650229 -1.504210 6 4.352581 -1.933636 0.356930 1 3.030370 -0.948851 1.744204 6 3.488427 -2.265413 -1.877964 1 1.486484 -1.548808 -2.231146 6 4.524917 -2.408739 -0.948306 1 5.151761 -2.040460 1.087256 1 3.611230 -2.633703 -2.894226 1 5.457850 -2.887182 -1.238117	P2b	6 -1.584072 -0.837105 0.105342 6 -1.875714 0.454263 -0.888874 5 -2.460272 -1.109810 -1.362952 5 -1.908367 0.721043 0.809637 5 -3.091924 1.484605 -0.266719 5 -3.425856 0.361137 -1.606270 5 -4.280336 -0.894384 0.848178 5 -2.967893 -1.874259 0.152252 5 -2.619905 -0.749537 1.488354 5 -4.169932 -1.114405 -0.927859 5 -4.573654 0.494178 -0.245577 5 -3.616277 0.716802 1.253785 1 -1.879397 -1.660132 -2.230973 1 -1.011580 1.289735 1.309354 1 -2.975897 2.642529 -0.482444 1 -3.536105 0.771783 -2.711468 1 -5.133285 -1.406838 1.495067 1 -2.807799 -3.035756 0.289319 1 -2.208958 -1.134299 2.525922 1 -4.931716 -1.770911 -1.557153 1 -5.641336 0.990963 -0.392586 1 -3.978669 1.360740 2.181934 6 0.864519 -0.593960 -0.357675 6 -0.157462 -1.354900 0.110397 6 0.039225 -2.811731 0.508741 1 -0.687657 -3.418064 -0.042447 1 1.020802 -3.124522 0.150572 6 0.693665 0.776797 -1.007059 6 -0.686165 0.980412 -1.677172 1 -0.830558 2.045314 -1.869031 1 -0.675685 0.477361 -2.646890 1 1.399697 0.793884 -1.845134 6 1.144537 1.982888 -0.165683 6 1.575631 1.895933 1.163769 6 1.556952 4.255283 -0.201748 6 2.015083 3.051027 1.815008 1 1.555922 0.947358 1.689035 6 2.007890 4.262793 1.121639 1 1.532194 5.178336 -0.780791 1 2.351662 3.003183 2.848479 1 2.338208 5.188364 1.585893 7 1.141360 3.149964 -0.835323 6 -0.066164 -3.160708 2.005877 1 -1.079099 -3.039217 2.393634 1 0.221735 -4.207193 2.153951 1 0.603016 -2.540734 2.610918 6 2.277493 -1.102034 -0.371581 6 2.971085 -1.398845 0.815036 6 2.953382 -1.271816 -1.594782 6 4.293323 -1.853379 0.782807 1 2.476929 -1.268835 1.774497 6 4.271493 -1.736266 -1.630696 1 2.440032 -1.063482 -2.531592 6 4.949553 -2.025672 -0.440663 1 4.809758 -2.070419 1.715347 1 4.767450 -1.873130 -2.589134 1 5.977367 -2.380514 -0.467258
TS2_I_1c	6 -0.029618 -3.563563 0.245123 6 -0.955035 -2.231892 -0.231617 5 -0.156171 -3.201778 -1.416399 5 -1.436663 -3.203305 1.114346 5 -2.612444 -2.668522 -0.081456 5 -1.816381 -2.671382 -1.656061 5 -1.872190 -5.400642 -0.692162 5 -0.168639 -4.887062 -0.823608 5 -0.976945 -4.890096 0.757335 5 -1.345981 -4.354283 -2.049979 5 -2.894792 -4.026179 -1.212274 5 -2.659514 -4.350366 0.532604 1 0.776513 -2.761930 -1.990042 1 -1.320029 -2.779916 2.212276 1 -3.395102 -1.834850 0.218970 1 -2.033501 -1.836960 -2.464281 1 -2.183950 -6.537552 -0.849200 1 0.797327 -5.551544 -1.005631 1 -0.556574 -5.554707 1.645198 1 -1.275859 -4.726955 -3.176715 1 -3.946956 -4.174343 -1.746473 1 -3.527150 -4.719640 1.256467 28 0.132634 -0.530086 0.013588 6 1.271448 -3.181699 0.935766	INT2_I_1c	6 1.852952 -2.653298 -0.368612 6 0.276632 -2.187254 -0.921189 5 1.601838 -2.352008 -2.024161 5 0.468969 -3.297257 0.382034 5 -0.713031 -3.572168 -0.906178 5 0.001718 -2.983348 -2.410400 5 1.613472 -5.189243 -1.480971 5 2.617463 -3.714286 -1.467072 5 1.899333 -4.315267 0.041571 5 1.446775 -3.962533 -2.779632 5 -0.008566 -4.736353 -2.069961 5 0.275320 -4.935762 -0.310988 1 2.074064 -1.382123 -2.508153 1 0.206465 -2.952801 1.481961 1 -1.864037 -3.426390 -0.667142 1 -0.638323 -2.427642 -3.239048 1 2.105155 -6.255496 -1.671608 1 3.794670 -3.619711 -1.579546 1 2.591395 -4.626778 0.952963 1 1.802262 -4.140220 -3.900176 1 -0.700065 -5.479002 -2.690734 1 -0.202591 -5.812392 0.334372 28 0.021429 -0.246394 -0.519716 6 0.889129 1.367260 -0.385794

Species	Cartesian coordinates	Species	Cartesian coordinates
	6 1.292288 -1.701277 1.302586		6 2.059586 0.797413 0.012410
	6 2.047155 -0.571920 -0.469131	15	-1.989630 0.112039 0.219208
	6 1.607847 0.641921 -0.425736	6	2.745923 -1.694978 0.444885
15	-1.592856 1.010585 0.041666	6	2.100311 -0.399992 1.003804
6	3.160622 -1.401398 -1.024002	6	3.417452 1.352780 -0.431494
1	3.844406 -1.697376 -0.220068	1	3.454924 2.417837 -0.174611
1	2.770452 -2.325775 -1.458867	1	4.216579 0.879023 0.148113
1	2.113385 -3.456454 0.297539	6	3.741945 1.201698 -1.930405
1	1.374183 -3.772957 1.854215	1	2.946345 1.665263 -2.524838
6	3.960665 -0.645277 -2.105011	1	3.750376 0.139344 -2.201026
1	3.282493 -0.345934 -2.913417	6	-2.466770 1.810795 0.775916
1	4.367701 0.279885 -1.682040	6	-2.655406 2.791456 -0.215447
6	2.118062 1.986100 -0.678681	6	-2.656377 2.165219 2.120796
1	1.637996 2.797326 -1.723206	6	-3.024493 4.092693 0.130303
6	3.172167 2.476286 0.121844	1	-2.530451 2.541358 -1.264828
6	2.203555 4.049759 -1.971414	6	-3.025629 3.471128 2.465916
1	0.833854 2.438543 -2.358202	1	-2.539050 1.430186 2.909737
6	3.726673 3.734679 -0.119960	6	-3.209906 4.438895 1.1974048
1	3.548524 1.862134 0.935360	1	-3.165165 4.835191 -0.651743
6	3.247361 4.527506 -1.170233	1	-3.175586 3.724925 3.513107
1	1.824092 4.656549 -2.790628	1	-3.499458 5.452111 1.744125
1	4.538543 4.094715 0.508767	6	-2.286795 -0.970859 1.679402
1	3.682266 5.505901 -1.362063	6	-3.287361 -1.955186 1.701349
6	5.102376 -1.497690 -2.677752	6	-1.434672 -0.840145 2.793465
1	5.777247 -1.796693 -1.864493	6	-3.450291 -2.774889 2.824181
1	4.690654 -2.427267 -3.092994	1	-3.940205 -2.097666 0.846097
6	5.904337 -0.766055 -3.762195	6	-1.607021 -1.653442 3.916193
1	5.264502 -0.484881 -4.606806	1	-0.629555 -0.108034 2.796171
1	6.711477 -1.396422 -4.151403	6	-2.616933 -2.622953 3.936513
1	6.357658 0.151665 -3.369587	1	-4.228481 -3.534953 2.823059
6	-1.180885 2.811384 0.142699	1	-0.943881 -1.534692 4.770232
6	-1.750979 3.782263 -0.693754	1	-2.745984 -3.260704 4.808228
6	-0.325062 3.221234 1.179563	6	-3.319669 -0.242619 -1.000405
6	-1.471783 5.140121 -0.495093	6	-4.673374 -0.025772 -0.680154
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6	-0.052607 4.575249 1.380396	6	-5.668556 -0.264596 -1.629685
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1	-0.933119 1.193796 -2.762546	6	0.150249 2.796682 -2.298975
6	-4.106109 0.677901 -3.870248	6	0.808328 5.114966 -0.882176
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 0.085487 -3.805400 -0.201013		1 4.897391 1.442498 0.396466
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 3.511429 1.595352 2.459434		6 1.459788 3.408968 -1.056083
	6 1.101044 1.733029 2.295955		6 1.493023 1.791777 -2.845230
	6 3.464321 2.271485 3.683747		6 1.341673 4.441563 -1.992677
	1 4.473191 1.278855 2.065852		1 1.495119 3.668183 -0.003446
	6 1.054671 2.419195 3.513509		6 1.373054 2.822962 -3.781035
	1 0.178301 1.506157 1.768877		1 1.557199 0.774121 -3.213180
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	1 4.387549 2.471248 4.223547		1 1.285326 5.471436 -1.646653
	1 0.095458 2.731067 3.921063		1 1.339504 2.580370 -4.840907
	1 2.202689 3.214661 5.163903		1 1.206242 4.957732 -4.088064
	6 3.944018 -0.396224 0.056668		6 2.243246 1.501819 1.301057
	6 5.116900 0.213743 -0.419703		6 3.373029 2.343491 1.306275
	6 4.012579 -1.717544 0.532099		6 1.544770 1.303618 2.502025
	6 6.331141 -0.481835 -0.416026		6 3.796855 2.956073 2.487626
	1 5.089121 1.231781 -0.799505		1 3.919338 2.536213 0.386587

Species	Cartesian coordinates	Species	Cartesian coordinates
	6 5.227660 -2.409072 0.546836		6 1.967373 1.918868 3.685622
	1 3.111425 -2.211195 0.889539		1 0.658547 0.675813 2.511301
	6 6.390845 -1.793082 0.069778		6 3.096224 2.743121 3.682110
	1 7.229731 0.002742 -0.791980		1 4.671241 3.602954 2.473828
	1 5.262733 -3.430352 0.919855		1 1.410971 1.755515 4.605893
	1 7.335379 -2.332732 0.071618		1 3.426040 3.223241 4.600828
INT2_I_2c	6 2.812571 -1.164439 0.465780	TS3_I_2c	6 2.468380 -1.319915 0.599903
	6 1.882284 -2.406237 -0.528881		6 1.667658 -2.817030 0.087413
	5 3.578872 -2.232519 -0.676264		5 3.384267 -2.673846 0.031450
	5 1.441034 -1.974112 1.071504		5 1.057099 -1.882770 1.394365
	5 1.403932 -3.658166 0.498282		5 1.111275 -3.655578 1.455826
	5 2.778105 -3.836041 -0.619102		5 2.582756 -4.157710 0.600766
	5 3.826677 -3.258926 2.009497		5 3.376618 -2.622822 2.911109
	5 4.272022 -1.900319 0.938479		5 3.899878 -1.737481 1.457519
	5 2.902853 -1.734217 2.064208		5 2.431304 -1.232150 2.315232
	5 4.275866 -3.557178 0.296429		5 3.989268 -3.510700 1.478134
	5 2.907923 -4.444170 1.051777		5 2.564817 -4.118562 2.384501
	5 2.040318 -3.288884 2.118999		5 1.590270 -2.697174 2.880156
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	1 2.691203 -4.452552 -1.627027		1 2.586656 -5.102482 -0.113028
	1 4.530304 -3.565384 2.915412		1 3.995768 -2.535520 3.920533
	1 5.233929 -1.222458 1.009735		1 4.832350 -1.024418 1.356684
	1 2.879327 -0.911886 2.914142		1 2.333667 -0.151103 2.786197
	1 5.292730 -4.077108 -0.025896		1 5.037106 -4.067238 1.452169
	1 2.933997 -5.611494 1.266516		1 2.584805 -5.126552 3.011572
	1 1.439869 -3.618770 3.087680		1 0.909115 -2.670180 3.851568
	6 2.706813 0.317453 0.181796		6 2.425891 -0.063462 -0.253661
	6 1.529469 1.018351 0.259580		6 1.320186 0.714783 -0.451271
	6 1.067814 -1.874480 -1.725786		28 -0.187643 -0.344500 -0.456155
	6 -0.428063 -1.506353 -1.540243		6 0.965389 -2.870646 -1.296355
	28 0.068047 -0.162312 -0.169507		6 -0.314924 -2.055718 -1.602790
	15 -1.828017 0.726247 0.409811		15 -1.656834 1.037853 0.358344
	6 1.552613 2.528500 0.143653		6 -2.832840 0.065004 1.391730
	1 0.815814 2.944531 0.837922		6 -3.485253 -1.021568 0.778901
	1 2.524938 2.939188 0.440995		6 -3.099905 0.353044 2.740420
	6 1.222636 3.051022 -1.269914		6 -4.390448 -1.800079 1.502858
	1 1.944793 2.640170 -1.986971		1 -3.298419 -1.255669 -0.264878
	1 0.237140 2.679530 -1.574497		6 -4.006704 -0.431546 3.462036
	6 -2.771999 -0.337302 1.593280		1 -2.618238 1.191023 3.234104
	6 -2.553021 -1.723203 1.623677		6 -4.652427 -1.509143 2.847357
	6 -3.709232 0.219718 2.484345		1 -4.886262 -2.635387 1.014560
	6 -3.258386 -2.536629 2.516355		1 -4.208544 -0.194847 4.504380
	1 -1.833656 -2.169828 0.948469		1 -5.356412 -2.117297 3.411182
	6 -4.418209 -0.594440 3.372085		6 -2.731475 1.746892 -0.953719
	1 -3.883028 1.292140 2.501150		6 -2.336022 1.669295 -2.297587
	6 -4.194501 -1.976260 3.391253		6 -3.966388 2.340896 -0.632243
	1 -3.071792 -3.608229 2.527513		6 -3.146677 2.204516 -3.304643
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	1 -4.741114 -2.608849 4.087353		6 -4.774593 2.872928 -1.639218
	6 -1.682657 2.292788 1.378308		1 -4.304162 2.382667 0.400688
	6 -2.148897 3.527440 0.902795		6 -4.363339 2.810664 -2.977402
	6 -1.045836 2.243507 2.632957		1 -2.831471 2.134571 -4.343191
	6 -1.990339 4.689538 1.669952		1 -5.726749 3.330576 -1.380237
	1 -2.642963 3.593881 -0.062116		1 -4.995876 3.222582 -3.760678
	6 -0.896201 3.399637 3.400037		6 -1.126409 2.433478 1.431145
	1 -0.663529 1.299042 3.014088		6 -0.271921 2.142148 2.511459
	6 -1.367715 4.629467 2.919639		6 -1.519385 3.762920 1.212922
	1 -2.358560 5.639029 1.287384		6 0.155397 3.155354 3.371535
	1 -0.406399 3.342845 4.369707		1 0.065538 1.123275 2.683365
	1 -1.247647 5.531528 3.515587		6 -1.077601 4.779875 2.068728
	6 -2.993072 1.164663 -0.950118		1 -2.161636 4.019195 0.376066
	6 -4.385003 1.196007 -0.769440		6 -0.246683 4.479378 3.151875
	6 -2.463135 1.523428 -2.199311		1 0.809523 2.912290 4.205794
	6 -5.226747 1.583580 -1.816865		1 -1.385491 5.806564 1.883866
	1 -4.824654 0.907869 0.180506		1 0.092636 5.270562 3.816674
	6 -3.303074 1.919463 -3.244570		1 0.800072 -3.942203 -1.466221
	1 -1.390094 1.484911 -2.364287		1 1.728691 -2.583519 -2.024198
	6 -4.689134 1.949690 -3.056302		1 -0.163466 -1.521203 -2.549163
	1 -6.303667 1.597229 -1.663202		6 -1.577495 -2.802277 -1.741941
	1 -2.874735 2.194727 -4.205881		6 -1.878321 -3.991974 -1.028940
	1 -5.345666 2.250734 -3.869727		6 -3.096053 -4.636818 -1.222898
	1 1.193252 -2.610576 -2.530954		1 -1.165201 -4.399567 -0.321349
	1 1.595915 -0.986863 -2.093176		6 -3.658903 -2.921838 -2.783309
	1 -0.679282 -0.758393 -2.303292		6 -4.025706 -4.097761 -2.121789
	6 -1.450083 -2.585157 -1.680640		1 -3.320374 -5.550814 -0.675207
	6 -1.147955 -3.947302 -1.894290		1 -4.346556 -2.462499 -3.495760
	6 -3.716362 -3.056323 -1.843995		1 -4.989434 -4.564834 -2.306397
	6 -2.179735 -4.869440 -2.074841		7 -2.489496 -2.290868 -2.617641
	1 -0.120882 -4.290247 -1.941507		6 1.348355 2.059836 -1.154242
	6 -3.503389 -4.424793 -2.045172		1 1.923006 1.950551 -2.083331
	1 -4.732143 -2.659120 -1.823377		1 0.337031 2.336934 -1.463280
	1 -1.948669 -5.919646 -2.242948		6 1.947132 3.230187 -0.343132
	1 -4.341320 -5.103808 -2.179855		1 1.404357 3.342881 0.599797
	7 -2.738121 -2.163041 -1.669172		1 2.984735 3.000241 -0.083072
	6 4.015242 1.001857 -0.135050		6 1.900487 4.551762 -1.123730
	6 4.796195 1.553679 0.896271		1 2.433812 4.430846 -2.076320

Species	Cartesian coordinates	Species	Cartesian coordinates
	6 4.463885 1.144167 -1.458193		1 0.858965 4.785690 -1.381820
	6 5.990626 2.223575 0.614671	6	2.507735 5.726071 -0.345028
	1 4.463452 1.457546 1.927683	1	2.458170 6.655032 -0.924165
	6 5.661744 1.810109 -1.744445	1	1.975537 5.891793 0.598784
	1 3.871772 0.735660 -2.273927	1	3.561186 5.540188 -0.104407
	6 6.430502 2.352265 -0.708824	6	3.705331 0.312752 -0.967486
	1 6.577948 2.643683 1.428662	6	4.723238 1.037993 -0.326013
	1 5.990299 1.907800 -2.777186	6	3.880556 -0.032382 -2.318809
	1 7.360468 2.871718 -0.929771	6	5.888141 1.397358 -1.011779
	6 1.236053 4.583731 -1.357734	1	4.605776 1.326469 0.715350
	1 2.223925 4.953964 -1.052593	6	5.043899 0.325449 -3.007787
	1 0.517795 4.993003 -0.635354	1	3.098655 -0.582558 -2.838061
	6 0.907117 5.109747 -2.761257	6	6.054263 1.040966 -2.354929
	1 1.627154 4.742142 -3.502198	1	6.664136 1.958021 -0.494921
	1 -0.091211 4.788974 -3.082454	1	5.158523 0.046203 -4.052987
	1 0.929382 6.205038 -2.792258	1	6.959839 1.321247 -2.888513
INT3_1_2c	6 2.832663 -0.943535 -0.142400	TS4_1_2c	6 2.710753 -2.120672 -0.791711
	6 2.511570 -1.795020 -1.602450	6	2.934943 -0.718816 0.083476
	5 4.090655 -1.198756 -1.310130	5	4.230362 -1.339481 -0.910711
	5 1.724069 -2.265880 -0.155191	5	1.974215 -1.991356 0.758989
	5 2.344454 -3.471601 -1.295065	5	3.144627 -1.110282 -1.750591
	5 3.822053 -2.809959 -2.020692	5	4.540718 -0.707003 0.717708
	5 4.286543 -3.152412 0.799721	5	4.368347 -3.585260 0.890729
	5 4.390869 -1.414686 0.426318	5	4.115849 -3.107236 -0.806667
	5 2.908307 -2.074627 1.151671	5	2.719187 -3.504293 0.220028
	5 5.028577 -2.597927 -0.737346	5	5.304135 -2.228490 0.179024
	5 3.936932 -4.021975 -0.718057	5	4.632990 -2.088330 1.837388
	5 2.615967 -3.684085 0.446592	5	3.032555 -2.888840 1.860573
	1 4.449333 -0.271489 -1.946518	1	4.462317 -0.757017 -1.912336
	1 0.572857 -2.042903 -0.028840	1	0.807456 -1.821481 0.794128
	1 1.558185 -4.057530 -1.960176	1	2.745543 -0.335174 2.548570
	1 4.038248 -2.944419 -3.177786	1	5.095447 0.326750 0.832879
	1 4.930468 -3.615453 1.683861	1	4.869048 -4.627947 1.159590
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	1 2.044701 -4.525179 1.059517	1	2.571089 -3.416212 2.818745
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	6 2.330081 0.471788 0.089839	6	1.050344 -0.815599 -2.374514
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	6 0.733615 -0.047163 -2.570754	6	1.155577 0.521127 -2.283460
	28 -0.340612 -0.139265 -0.941367	28	-0.485732 -0.562371 -0.897290
	15 -1.896064 -0.258846 0.746807	15	-1.855002 -0.127518 0.744685
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	6 -1.395923 -1.324610 -2.717354	1	1.049966 -2.899511 -1.844162
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	1 -0.900720 -2.222273 -2.354331	6	-0.709596 -0.564357 -4.228074
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	1 2.449073 -0.888496 -3.529049	1	-2.949717 -2.913359 -2.186616
	1 1.164534 0.920211 -2.808527	1	-3.742938 -2.106413 -4.408061
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	6 0.663923 2.333337 0.062335	6	0.720121 1.819349 -1.924857
	1 1.336508 2.804144 0.788725	1	1.590915 2.284634 -2.405241
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	6 0.635131 3.207271 -1.209171	6	0.015679 2.881885 -1.063463
	1 1.628909 3.200952 -1.676031	1	0.656634 3.182751 -0.229982
	1 -0.054676 2.776394 -1.944503	1	-0.885125 2.447640 -0.618307
	6 0.226786 4.658334 -0.915201	6	-0.366341 4.122571 -1.884682
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	1 0.916398 5.087728 -0.176165	1	-1.011325 3.822618 -2.722393
	6 0.207604 5.543345 -2.168771	6	-1.079748 5.198824 -1.055709
	1 -0.089656 6.570506 -1.928377	1	-0.448152 5.545237 -0.229329
	1 1.197275 5.585403 -2.639077	1	-1.334460 6.070779 -1.668942
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	6 4.415671 2.455842 2.613851	6	3.568454 3.628048 1.419922
	1 2.865248 0.964966 2.728608	1	2.183109 2.040942 1.868242
	6 5.225805 3.229908 1.773907	6	4.436891 4.182174 0.472214
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	1 5.946970 3.926705 2.195850	1	4.984488 5.095154 0.696348
	6 -2.388812 -1.933308 1.359115	6	-2.279608 -1.647905 1.721524
	6 -2.873663 -2.136667 2.664018	6	-2.114481 -2.897933 1.099637
	6 -2.298349 -3.038285 0.496531	6	-2.775027 -1.609995 3.037121
	6 -3.264175 -3.410521 3.088612	6	-2.454379 -4.079291 1.767429
	1 -2.945075 -1.303275 3.357281	1	-1.705507 -2.945884 0.093605
	6 -2.692140 -4.312210 0.918525	6	-3.110293 -2.791091 3.707137
	1 -1.913206 -2.911154 -0.509367	1	-2.890811 -0.660026 3.552504

Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -2.610649 -5.154975 0.235633		1 -3.490413 -2.742491 4.725458
	1 -3.476970 -5.493358 2.549650		1 -3.213525 -4.947774 3.596133
	6 -1.486336 0.618527 2.319287		6 -1.442306 1.088800 2.075986
	6 -2.258923 1.670747 2.834220		6 -2.071417 2.338772 2.189102
	6 -0.336931 0.211339 3.020814		6 -0.396633 0.778347 2.966059
	6 -1.892299 2.301857 4.029804		6 -1.675707 3.250854 3.175656
	1 -3.151152 2.004132 2.312106		1 -2.877251 2.609963 1.512783
	6 0.020268 0.832904 4.219340		6 -0.008121 1.683914 3.956069
	1 0.278268 -0.598608 2.637761		1 0.110721 -0.180729 2.898374
	6 -0.754893 1.883729 4.726847		6 -0.646648 2.926507 4.064866
	1 -2.501365 3.116702 4.415267		1 -2.177461 4.213553 3.248206
	1 0.905831 0.499102 4.755962		1 0.794381 1.419352 4.641623
	1 -0.472967 2.371272 5.657499		1 -0.343452 3.632826 4.834659
	6 -3.481589 0.519483 0.210327		6 -3.505295 0.447728 0.123037
	6 -4.746904 0.044057 0.592033		6 -4.675989 0.420727 0.902089
	6 -3.403307 1.657221 -0.611835		6 -3.585091 0.922663 -1.196416
	6 -5.908079 0.701924 0.170656		6 -5.891605 0.868087 0.376741
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	1 -4.483556 3.206071 -1.650571		1 -4.842100 1.743859 -2.745946
	1 -6.723002 2.359179 -0.952214		1 -6.903484 1.699020 -1.344418
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	5 -1.239098 -2.759311 -1.842753		5 0.726265 2.730010 -2.550853
	5 -0.385843 -5.451121 -1.210603		5 -0.817353 5.111998 -2.031863
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 2.885834 3.052340 0.808920		1 -0.028705 -1.588257 -2.012039
	1 0.111419 3.997261 1.623898		1 -2.593998 -0.156792 -2.738609
	1 -1.832804 2.903664 -0.357105		1 -4.646750 -0.956825 -0.672433
	1 1.205311 5.979904 -2.793402		1 -3.328911 -5.066494 -3.072120
	1 1.680215 3.056775 -3.808391		1 -2.403615 -5.255745 -0.082744
	1 3.580026 4.172076 -1.829855		1 -0.366251 -4.473912 -2.191541
	1 -1.190062 4.069689 -3.132328		1 -5.093369 -3.940605 -0.791722
	1 -0.964853 5.832107 -0.599280		1 -4.705130 -2.333503 -3.397795
	1 2.005906 5.950950 0.181470		1 -1.764293 -2.679315 -4.268104
	6 2.761725 1.265906 -1.615263		6 -0.277108 -3.134668 0.552153
	6 2.248336 -0.060939 -1.003014		6 -0.213040 -1.861431 1.389454
	6 2.019899 0.115445 0.511026		6 -2.395276 0.311211 0.328763
	6 1.013355 0.943771 0.937425		6 -1.646271 1.248298 -0.206181
	28 -0.622984 0.934007 -0.156463		28 -0.525564 -0.290100 0.140953
	15 -2.096758 -0.704590 -0.243903		15 1.558743 0.361507 -0.528556
	1 2.886321 1.131918 -2.693719		1 -1.172663 -1.710477 1.898820
	1 3.747569 1.491806 -1.204862		6 0.821883 -1.848795 2.452784
	1 1.279383 -0.287366 -1.458069		6 0.652868 -1.023212 3.589404
	6 3.177455 -1.197798 -1.406967		6 1.588616 -1.050731 4.616468
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	6 4.887071 -3.219197 -2.165983		1 3.632875 -3.366673 3.221290
	1 3.116705 -4.380725 -2.623933		1 3.451757 -1.967737 5.799029
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	7 4.503148 -0.985507 -1.332022		1 0.666463 -3.308475 0.032381
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 3.914798 1.285831 2.084025		6 -4.319025 1.101715 3.621368
	6 4.743774 -1.793793 3.280765		1 -4.556686 0.069319 3.910688
	1 3.798566 -3.641274 2.677839		1 -5.222707 1.501776 3.142618
	1 5.475902 0.203549 3.663441		6 -4.001429 1.923926 4.877356
	1 5.429314 -2.271694 3.977208		1 -3.123923 1.526562 5.401096
	6 0.815210 1.291707 2.410906		1 -3.791923 2.969899 4.624436
	1 1.341302 2.229806 2.629953		1 -4.841091 1.913308 5.580954
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	6 -0.693041 1.831365 4.394789		1 0.099302 3.313118 0.239172
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	6 -2.154149 -1.915473 1.151461		6 2.621867 1.041265 0.812393
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	6 -3.313236 -3.467681 2.625312		6 4.786583 1.575383 1.786839
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	6 -0.925181 -3.148874 2.855867		6 2.759520 2.326376 2.875695
	1 -0.034740 -1.722262 1.508141		1 0.912692 1.748117 1.933287
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	5 -4.857432 -2.650201 -1.429507		5 5.003243 -1.873870 1.808481
	5 -3.576764 -3.656204 -2.186051		5 3.851196 -3.107432 2.417316
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	1 -3.819338 -4.242595 0.423545		1 4.507671 -3.610210 -0.136612
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	1 -3.794379 -4.719642 -2.666440		1 4.206087 -4.116506 2.932374
	1 -1.649941 -2.797082 -3.781493		1 1.620019 -2.636838 3.958221
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	6 -1.772849 -2.180526 1.315917		28 0.124631 -0.222178 -0.393252
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	6 2.614426 -0.799030 -1.435906		6 -2.456409 -1.092975 1.465878
	6 2.326985 -2.169261 -1.327824		6 -2.265068 -2.391102 0.958761
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 4.930977 -0.971013 -3.943162		1 -4.221343 -1.896253 4.275808
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	6 3.015764 4.140455 -1.627048		6 -3.746843 0.579835 -3.170963
	1 3.401528 2.907312 0.091519		1 -1.731066 0.286631 -2.467620
	6 1.435931 3.265225 -3.236315		6 -5.446884 0.799125 -1.459402
	1 0.557836 1.361035 -2.762685		1 -4.765922 0.699928 0.575512
	6 2.320663 4.273982 -2.832017		6 -5.086339 0.755341 -2.813510
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	6 5.119230 0.593074 2.127054		6 -1.278611 2.835065 3.666301
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	1 6.189356 0.421128 2.033232		1 -0.720446 2.797790 4.599212
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	5 3.966685 -2.812189 -1.677573		5 -4.352577 1.637652 0.556333
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	5 5.204573 -2.477022 -0.458949		5 -5.006182 2.698369 -0.718340
	5 4.174719 -3.938699 -0.313995		5 -4.208364 3.401814 0.728085
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	1 1.755076 -4.135603 -1.460032		1 -2.452078 2.084447 2.254671
	1 4.148932 -3.003121 -2.832107		1 -5.002840 0.929067 1.238588
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	1 2.785471 -1.509037 2.529871		1 -1.540801 3.911993 -2.197762
	1 6.361711 -2.509704 -0.721307		1 -6.174445 2.767633 -0.916399
	1 4.592592 -5.035336 -0.495131		1 -4.822326 3.976845 1.566340
	1 2.367437 -4.407797 1.557755		1 -1.946548 4.763850 0.772284

Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 1.156929 0.900412 0.006408		6 -1.175805 -0.431815 -2.172279
	6 1.759034 -1.364882 -2.455421		6 -2.318294 -0.304592 0.285609
	6 1.028190 -0.035132 -2.380333		6 -1.288468 -0.875111 -0.425009
	28 -0.235674 0.003752 -0.899643		28 0.475200 -0.079094 -0.889853
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	5 2.348329 -4.234686 -0.294219		5 -2.314491 4.278013 -0.005097
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	5 4.050243 -2.301872 1.036147		5 -3.805839 2.141311 1.238731
	5 2.723352 -1.885804 2.147559		5 -2.376931 1.691366 2.192130
	5 3.884076 -4.009865 0.574749		5 -3.764973 3.893501 0.950766
	5 2.452176 -4.675822 1.430542		5 -2.301498 4.546613 1.756890
	5 1.717820 -3.336725 2.377110		5 -1.432926 3.168768 2.504566
	1 3.745519 -2.427754 -1.576134		1 -3.732317 2.549186 -1.356827

Species	Cartesian coordinates	Species	Cartesian coordinates
	1 0.282034 -1.371438 1.338046		1 0.014105 1.400518 1.192537
	1 -0.079494 -4.220901 0.688372		1 0.175697 4.320669 0.770398
	1 2.182694 -4.940461 -1.230891		1 -2.251757 5.081649 -0.872350
	1 4.184418 -3.765354 3.177593		1 -3.844391 3.363566 3.525481
	1 5.069188 -1.708579 1.025380		1 -4.785376 1.485811 1.245054
	1 2.794400 -0.978189 2.902548		1 -2.355395 0.705170 2.846134
	1 4.839524 -4.657258 0.299623		1 -4.769835 4.509558 0.813487
	1 2.370827 -5.811064 1.767497		1 -2.249027 5.647066 2.199233
	1 1.107484 -3.502546 3.380800		1 -0.756115 3.264742 3.474346
	6 2.684779 -0.040382 0.051792		6 -2.439847 0.098826 -0.130828
	6 1.583756 0.770626 0.104762		6 -1.348808 -0.683630 -0.358831
	6 0.812239 -2.244319 -1.589654		28 0.240564 0.265474 -0.520368
	6 -0.620767 -1.664256 -1.439344		6 -0.821096 2.554910 -1.648684
	28 -0.001352 -0.299055 -0.152172		6 0.546746 1.835880 -1.785975
	15 -1.809137 0.837395 0.261952		15 1.602299 -1.033218 0.579381
	6 -3.006538 -0.058719 1.348487		6 2.695035 0.065675 1.573657
	6 -2.863838 -1.431990 1.592808		6 3.405258 1.067402 0.884597
	6 -4.048045 0.640226 1.987929		6 2.841443 -0.046179 2.966109
	6 -3.747130 -2.098537 2.449200		6 4.250877 1.934774 1.578998
	1 -2.063818 -1.984873 1.114514		1 3.307404 1.165249 -0.192803
	6 -4.936419 -0.027132 2.834887		6 3.687558 0.828694 3.657457
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	6 -4.787583 -1.400086 3.069049		6 4.392450 1.820281 2.967794
	1 -3.618548 -3.163442 2.629975		1 4.794845 2.702561 1.033781
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	6 -1.926894 3.643049 0.854343		6 2.376504 -2.297599 -1.806823
	6 -0.955795 2.203326 2.540193		6 4.051212 -2.304613 -0.052528
	6 -1.744998 4.745874 1.698754		6 3.246446 -3.009995 -2.638376
	1 -2.380228 3.792117 -0.121050		1 1.394406 -2.014870 -2.172218
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	1 -0.641272 1.217773 2.877304		1 4.378390 -2.028230 0.946654
	6 -1.179904 4.578653 2.965652		6 4.518332 -3.369394 -2.180598
	1 -2.051511 5.734196 1.362964		1 2.931826 -3.275729 -3.645003
	1 -3.404405 3.160568 4.367715		1 5.909287 -3.285356 -0.526597
	1 -1.045331 5.435330 3.622519		1 5.197347 -3.918025 -2.829662
	6 -2.742205 1.416739 -1.213873		6 0.944467 -2.261291 1.776656
	6 -4.129802 1.267238 -1.356547		6 -0.023648 -1.836842 2.705492
	6 -2.012431 2.031491 -2.245324		6 1.365303 -3.599654 1.792753
	6 -4.776952 1.740029 -2.502909		6 -0.544329 -2.729492 3.644543
	1 -4.711333 0.769386 -0.587439		1 -0.376374 -0.809265 2.698023
	6 -2.660700 2.507799 -3.388735		6 0.833996 -4.495901 2.728240
	1 -0.936190 2.149370 -2.154173		1 2.098927 -3.955286 1.075627
	6 -4.046684 2.363217 -3.520969		6 -0.117275 -4.064054 3.657297
	1 -5.853207 1.615102 -2.601326		1 -1.286919 -2.384903 4.360740
	1 -2.082424 2.986701 -4.175977		1 1.165217 -5.531938 2.725987
	1 -4.552442 2.728649 -4.412077		1 -0.527773 -4.761608 4.384005
	1 0.811820 -3.093344 -2.285251		1 -0.797282 3.546867 -2.119881
	1 1.435819 -1.490244 -2.080302		1 -1.551058 1.987007 -2.231894
	1 -0.771694 -0.926774 -2.238902		1 0.489384 1.179094 -2.666286
	6 -1.779360 -2.597369 -1.519594		6 1.757427 2.658054 -1.968918
	6 -1.679330 -4.004720 -1.516498		6 1.856642 4.028621 -1.623743
	6 -4.078374 -2.751267 -1.789484		6 3.040633 4.725664 -1.852975
	6 -2.830895 -4.783044 -1.644757		1 1.012606 4.547976 -1.185652
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	6 -4.069005 -4.151163 -1.778641		6 4.129897 4.061808 -2.428761
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	1 -2.757065 -5.868885 -1.647017		1 4.769108 2.149471 -3.205563
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	7 -2.984713 -1.994993 -1.669080		7 2.824644 2.024768 -2.534619
	6 1.716351 2.206910 -0.230064		6 -3.802332 -0.428124 -0.513407
	6 1.920342 3.171196 0.774917		6 -4.549187 -1.174027 0.413340
	6 1.620482 2.652440 -1.563965		6 -4.333140 -0.222982 -1.796344
	6 2.029086 4.527757 0.458300		6 -5.802425 -1.690518 0.071477
	1 1.995931 2.853323 1.811506		1 -4.149010 -1.347547 1.409702
	6 1.735038 4.008958 -1.881443		6 -5.586727 -0.739361 -2.141544
	1 1.482447 1.924536 -2.361230		1 -3.761491 0.332502 -2.535802
	6 1.937955 4.957061 -0.871196		6 -6.327607 -1.472523 -1.207935
	1 2.185950 5.252306 1.254842		1 -6.366873 -2.263977 0.803769
	1 1.671069 4.324609 -2.921233		1 -5.980812 -0.572114 -3.141748
	1 2.025310 6.013251 -1.116543		1 -7.302120 -1.874742 -1.476147
	6 4.029216 0.477271 -0.395770		6 -1.431505 -2.018085 -0.993927
	6 4.884242 1.101858 0.528006		6 -1.660962 -3.193256 -0.253942
	6 4.442599 0.387960 -1.734757		6 -1.259078 -2.126801 -2.390552
	6 6.121732 1.614497 0.127456		6 -1.716726 -4.435607 -0.891161
	1 4.578810 1.185094 1.568503		1 -1.805881 -3.132490 0.820405
	6 5.680829 0.898926 -2.139273		6 -1.322034 -3.368835 -3.025595
	1 3.789896 -0.073966 -2.471799		1 -1.091476 -1.227400 -2.979533
	6 6.527022 1.512413 -1.208792		6 -1.546693 -4.531343 -2.277382
	1 6.768730 2.093873 0.859293		1 -1.898843 -5.331864 -0.301980
	1 5.980645 0.821770 -3.182414		1 -1.197778 -3.428705 -4.104827
	1 7.489716 1.910656 -1.522080		1 -1.594649 -5.499849 -2.770165
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	6 3.194324 1.064944 0.074743		6 -2.873464 0.943456 -0.144572
	5 4.179496 1.653159 -1.223458		5 -4.116157 1.146514 -1.352431
	5 2.012472 2.225392 0.578985		5 -1.829927 2.323967 -0.044139
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Species	Cartesian coordinates			Species	Cartesian coordinates			
	5	4.806124	1.570270	0.433020	5	-4.479361	1.295964	0.378791
	5	3.926928	4.274462	-0.064231	5	-4.114324	3.952588	-0.692809
	5	3.632558	3.313062	-1.532328	5	-3.882707	2.777384	-2.011420
	5	2.285068	3.658488	-0.424952	5	-2.469816	3.497386	-1.205822
	5	5.098867	3.014878	-0.568977	5	-5.134427	2.479084	-0.786296
	5	4.654389	3.189889	1.158939	5	-4.485380	3.026571	0.794364
	5	2.913270	3.592110	1.244491	5	-2.834546	3.665675	0.528171
	1	4.458929	0.891373	-2.080817	1	-4.379762	0.202857	-2.013224
	1	0.945343	1.838376	0.886225	1	-0.678947	2.114192	0.098900
	1	3.346045	1.312255	2.555896	1	-2.723749	1.643145	2.253043
	1	5.604785	0.742292	0.693859	1	-5.099204	0.443351	0.906399
	1	4.171002	5.434414	-0.135956	1	-4.545563	5.036427	-0.914665
	1	3.584881	3.683064	-2.656333	1	-4.038295	2.928249	-3.176009
	1	1.341863	4.267769	-0.801517	1	-1.690561	4.128514	-1.835795
	1	6.179330	3.255814	-0.997380	1	-6.289912	2.494691	-1.057456
	1	5.431418	3.560033	1.977244	1	-5.192527	3.436429	1.655870
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	6	1.597948	1.495841	-2.132768	6	-1.617886	1.241938	-2.593854
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	6	2.805344	-0.399370	0.050371	6	-2.299896	-0.441488	-0.032726
	6	1.547378	-0.806424	-0.203831	6	-1.202067	-0.851276	-0.754326
	28	-0.167860	-0.112237	-0.276489	28	0.542544	0.086082	-0.951609
	15	-2.292029	0.263878	0.626772	15	1.945293	0.410399	0.696048
	1	2.105243	0.623480	-2.545040	1	-2.170417	1.232494	-3.539187
	1	1.564867	2.238271	-2.941611	1	-0.796786	1.949644	-2.713144
	1	-0.351124	2.040625	-1.360731	1	-1.672995	-0.909076	-2.832594
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	6	-0.092677	-0.410571	-3.731271	6	0.641728	-1.371466	-3.927792
	7	-1.927076	0.910133	-2.911857	6	1.879807	-1.395211	-4.556608
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	6	3.889763	-1.393955	0.368938	6	-0.838450	-2.317587	-0.708834
	6	4.121329	-1.798605	1.694167	6	-1.271005	-3.233241	-1.686435
	6	4.668622	-1.963273	-0.652184	6	-0.068904	-2.818458	0.357638
	6	5.109587	-2.742457	1.992794	6	-0.925193	-4.587177	-1.617340
	1	3.523427	-1.372693	2.496394	1	-1.911141	-2.906262	-2.502193
	6	5.658615	-2.906727	-0.356456	6	0.267272	-4.171770	0.437482
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	6	5.884611	-3.298523	0.968170	6	-0.148986	-5.065256	-0.557069
	1	5.272613	-3.044401	3.025375	1	-1.277633	-5.269852	-2.388032
	1	6.250911	-3.337275	-1.161333	1	0.857221	-4.527981	1.279574
	1	6.653877	-4.032265	1.199109	1	0.117148	-6.118462	-0.499967
	6	-2.978661	1.969931	0.800949	6	1.551401	-0.071048	2.438249
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	1	-2.808855	2.353620	-1.321672	1	-0.012020	1.421663	2.605638
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	1	-4.411908	5.594732	1.028031	1	0.496344	-1.085439	6.063826
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	6	-3.027011	-1.243598	2.956544	6	2.944310	2.731566	2.069469
	6	-1.059390	0.155515	3.134350	6	2.295033	3.028644	-0.242342
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	6	-0.876848	-0.262272	4.455264	6	2.680374	4.371806	-0.178756
	1	-0.358922	0.865640	2.699621	1	1.874127	2.630306	-1.162166
	6	-1.765582	-1.179492	5.030541	6	3.196931	4.899740	1.009907
	1	-3.531878	-2.383054	4.715680	1	3.717595	4.479525	3.065559
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	1	-1.621430	-1.510510	6.056636	1	3.490315	5.946014	1.062492
	6	-3.673935	-0.724818	-0.077385	6	3.553392	-0.447550	0.363280
	6	-5.022874	-0.355667	0.054196	6	4.779925	-0.034734	0.912854
	6	-3.351358	-1.908852	-0.762005	6	3.535271	-1.566851	-0.486046
	6	-6.031773	-1.162487	-0.482758	6	5.957656	-0.732711	0.627987
	1	-5.291276	0.562325	0.570933	1	4.825693	0.835112	1.562231
	6	-4.360956	-2.719818	-1.289273	6	4.711874	-2.271714	-0.764229
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	6	-5.703452	-2.347648	-1.151966	6	5.926358	-1.855873	-0.208573

Species	Cartesian coordinates	Species	Cartesian coordinates
	1 -7.072946 -0.865228 -0.377189		1 6.899407 -0.398978 1.058681
	1 -4.098304 -3.634939 -1.815350		1 4.678773 -3.138547 -1.420748
	1 -6.489103 -2.974059 -1.568957		1 6.843467 -2.398166 -0.428743
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	6 1.754849 1.263550 0.038971		6 1.415384 -1.480566 0.017718
	5 2.923646 1.174561 1.310512		5 2.497596 -1.732256 -1.307162
	5 2.506573 1.734786 -1.439534		5 2.260947 -1.693464 1.506247
	5 1.555448 2.886406 -0.507147		5 1.138884 -2.916116 0.896247
	5 1.807829 2.531117 1.199902		5 1.290626 -2.941975 -0.863179
	5 4.346804 3.358868 0.081553		5 3.825877 -3.768470 0.251879
	5 4.499460 1.669955 0.628104		5 4.075710 -2.240777 -0.637530
	5 4.240360 2.026277 -1.094580		5 3.924372 -2.226954 1.132308
	5 3.533794 2.817851 1.588586		5 2.949929 -3.456436 -1.282824
	5 2.680100 3.896626 0.443449		5 2.100358 -4.203609 0.108886
	5 3.111911 3.394856 -1.221569		5 2.699269 -3.421841 1.606674
	1 2.844822 0.303216 2.103816		1 2.422066 -1.027315 -2.252732
	1 2.163090 1.215111 -2.447501		1 2.052287 -0.954836 2.408799
	1 0.509282 3.232569 -0.919868		1 0.090065 -3.049282 1.429920
	1 0.925972 2.615255 1.987995		1 0.350410 -3.088390 -1.565762
	1 5.281906 4.093504 0.092136		1 4.698405 -4.572320 0.335540
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	1 3.876269 3.153593 2.676360		1 3.179671 -4.034021 -2.296124
	1 2.410610 5.022885 0.714415		1 1.719859 -5.330340 0.090702
	1 3.151173 4.145663 -2.142352		1 2.750844 -3.971495 2.659497
	28 0.612585 -0.410414 0.129298		6 3.555544 0.373526 0.207492
	6 3.528706 -0.662354 -0.638928		6 2.449737 1.447161 0.365278
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	15 -1.517538 0.355348 -0.071970		15 -1.681726 -0.191220 0.062491
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	1 3.248975 -3.133838 1.014406		1 2.300454 3.561982 -2.274426
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	1 4.116699 -0.754074 -1.559086		1 4.240810 0.461818 1.052808
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	1 1.609463 -3.104521 3.614048		1 3.595799 0.864663 -2.991146
	1 1.623689 -4.454762 2.460420		1 2.138354 1.494836 -3.759763
	6 -1.117310 -2.906634 1.287237		6 -0.358969 2.615936 -2.171556
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	6 -1.351505 -3.045062 2.804253		6 -0.568164 4.103097 -1.817232
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	6 -2.518271 4.379078 -0.395696		6 -3.054993 -3.837657 -1.377029
	1 -2.393776 2.946311 1.200787		1 -2.836724 -2.943248 0.565008
	6 -1.994119 3.562858 -2.611315		6 -2.377785 -2.483683 -3.265037
	1 -1.440481 1.494222 -2.754959		1 -1.604012 -0.533598 -2.803452
	6 -2.380485 4.612013 -1.767110		6 -2.894377 -3.682523 -2.757014
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	1 -1.881497 3.733190 -3.679773		1 -2.236242 -2.358447 -4.336163
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	6 -2.363942 0.318663 1.570290		6 -2.102762 -0.623603 1.802229
	6 -3.689988 -0.097494 1.770509		6 -3.436042 -0.879196 2.175290
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	6 2.314542 -2.746031 -1.380863		6 3.023846 2.683329 1.075048
	8 3.330772 -3.423762 -1.315012		8 4.201317 2.998503 1.088262
	8 1.196426 -3.160384 -2.020196		8 2.053994 3.390655 1.682883
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	1 0.280262 -4.649336 -3.050765		1 2.930534 5.292185 1.638938
	1 2.050609 -4.562320 -3.320097		1 1.567152 5.030438 2.775498
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	5 4.460067 -1.299326 1.204737		5 0.864431 2.397993 1.050530
	5 5.076907 -2.603035 0.161257		5 2.760293 2.231806 -1.112701
	5 4.770707 -0.982647 -0.514665		5 1.313962 3.061794 -1.692201
	5 3.193505 -1.018035 -1.353064		5 0.153302 3.183970 -0.359229
	5 3.785329 -2.932928 1.364520		5 2.511704 4.660599 0.410585
	5 2.694263 -1.514144 1.390116		5 2.322423 3.287885 1.529726
	1 1.283638 -3.586663 0.831881		5 3.491572 3.181740 1.97429
	1 3.802356 -4.812915 -0.473216		5 0.878354 4.163824 0.949896
	1 5.039597 -0.688076 2.039576		5 1.162313 4.594127 -0.767129
	1 6.188233 -3.007867 0.288005		5 2.782231 3.990912 -1.228502
	1 5.559014 -0.158067 -0.838630		1 0.282830 1.706762 1.810560
	1 2.936742 -0.256445 -2.221494		1 3.395107 1.487190 -1.761815
	1 3.956384 -3.579577 2.347483		1 0.945580 2.868564 -2.802450
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	5 2.541987 -2.653539 -1.222314		1 3.012971 5.677210 0.768268
	1 1.799243 -3.039405 -2.064114		1 2.694714 3.191053 2.650841
	5 4.297775 -2.420723 -1.445693		1 4.644195 3.025626 0.426479
	1 4.835722 -2.696286 -2.469551		1 0.204161 4.802613 1.690545
	6 3.333136 -0.434814 0.242376		1 0.686435 5.562846 -1.225026
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	6 0.222936 1.319532 -1.475457		15 -1.956099 -0.226694 0.109222
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	1 3.506161 -0.270875 4.714394		6 -2.205198 -4.875727 0.157999
	1 -2.070994 -2.145419 5.512228		1 -4.196490 -4.660848 -0.653769
	6 1.857502 3.199324 -1.818645		1 -0.195621 -4.764851 0.947352
	1 1.614072 4.141792 -1.306545		1 -2.240873 -5.962755 0.174272
	1 1.338279 3.246399 -2.776825		6 -3.270004 0.397461 -1.014095
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	1 1.097803 1.194761 0.978410		6 -3.105675 2.107734 3.299325
	6 1.910942 3.115333 1.168917		1 -2.593171 2.389588 1.233157
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	8 0.680298 3.550387 1.514048		1 -2.544897 -1.683569 2.676174
	6 0.629586 4.815253 2.217832		6 -3.278238 1.191833 4.345082
	1 1.051099 5.610758 1.599293		1 -3.265178 3.170135 3.469929
	1 -0.427420 4.997800 2.409377		1 -3.205149 -0.890755 4.915495
	1 1.183811 4.748179 3.156561		1 -3.573930 1.538844 5.332657
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	5 1.625045 -1.730648 1.430360		5 -3.948259 0.668037 -0.917807

Species	Cartesian coordinates	Species	Cartesian coordinates
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	5 0.965989 -2.937851 0.287660		5 -4.326826 -0.896568 -0.127145
	5 3.533866 -3.873346 1.209576		5 -5.190481 1.219090 1.640143
	5 3.205218 -2.307819 1.990667		5 -4.551088 1.983152 0.157991
	5 4.292171 -2.384132 0.588455		5 -3.545722 1.909185 1.624067
	5 1.869580 -3.459953 1.733183		5 -5.460262 0.459987 0.032082
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	1 3.896218 -1.174974 -1.675214		1 -1.282915 0.657479 1.771886
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	1 1.317855 -3.980410 2.646746		1 -6.516714 0.424222 -0.508015
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	6 2.350938 1.273647 0.537082		28 -0.639103 -0.199028 -0.451647
	6 3.474806 0.283013 0.910112		6 -1.855475 -1.628548 -1.187337
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	1 -2.268155 -0.815603 4.960700		1 1.985404 4.343630 2.297069
	1 -3.577808 1.243314 5.479436		1 4.247058 4.755060 1.328479
	6 -2.312025 1.531543 -0.895046		6 1.601365 -0.874012 2.048711
	6 -3.357947 1.652017 -1.823922		6 0.546994 -1.608177 2.613209
	6 -1.429115 2.613796 -0.720335		6 2.767880 -0.671949 2.811434
	6 -3.523527 2.833271 -2.558515		6 0.658103 -2.143329 3.901390
	1 -4.049345 0.829130 -1.981705		1 -0.369078 -1.755769 2.052006
	6 -1.604741 3.796626 -1.442964		6 2.880269 -1.208741 4.096477
	1 -0.603918 2.541878 -0.016229		1 3.591795 -0.088041 2.410117
	6 -2.651125 3.909466 -2.367894		6 1.825317 -1.948055 4.645707
	1 -4.337754 2.909754 -3.276102		1 -0.172703 -2.705193 4.322583
	1 -0.919303 4.626928 -1.287494		1 3.789926 -1.043986 4.669797
	1 -2.782907 4.827995 -2.935752		1 1.910767 -2.360294 5.648748
	6 -3.329199 -1.165035 -0.457088		6 2.569715 -1.185662 -0.719199
	6 -4.634804 -1.138481 0.062235		6 3.449754 -2.153906 -0.209709
	6 -3.009494 -2.118201 -1.439474		6 2.496276 -0.988485 -2.111004
	6 -5.599966 -2.040829 -0.397572		6 4.247229 -2.910562 -1.076454
	1 -4.903509 -0.419155 0.831469		1 3.513041 -2.335223 0.858976
	6 -3.976288 -3.014657 -1.906557		6 3.301886 -1.739701 -2.971868
	1 -1.997710 -2.162497 -1.837097		1 1.820587 -0.241524 -2.521108
	6 -5.274595 -2.978731 -1.384902		6 4.177257 -2.704779 -2.458331
	1 -6.605451 -2.011259 0.016863		1 4.920674 -3.661204 -0.668436
	1 -3.712580 -3.745054 -2.668395		1 3.239974 -1.574013 -4.045314
	1 -6.026020 -3.680514 -1.740238		1 4.797541 -3.293825 -3.130438
INT2_I_2e	6 3.082142 -0.952443 -0.080414	TS3_I_2e	6 -2.912458 -0.998409 -0.052803
	6 3.200722 0.765147 0.477013		6 -3.275218 0.694213 -0.293345
	5 4.442189 -0.374712 0.813651		5 -4.467239 -0.508458 -0.621722
	5 2.461508 0.340979 -1.006302		5 -2.277849 0.191333 1.007981
	5 3.527149 1.763778 -0.851209		5 -3.497425 1.464063 1.211656
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	5 4.637010 -1.440780 -0.609427		5 -4.298772 -1.777736 0.618802
	5 3.371945 -0.985880 -1.769636		5 -2.917459 -1.338815 1.638127
	5 5.721909 -0.053061 -0.382330		5 -5.548798 -0.523505 0.783309
	5 5.139549 1.277643 -1.440992		5 -4.940126 0.703528 1.942687
	5 3.656696 0.696090 -2.274509		5 -3.298756 0.198649 2.455699
	1 4.575758 -0.730916 1.930420		1 -4.743510 -0.715039 -1.748545
	1 1.280290 0.463241 -1.145114		1 -1.119270 0.436527 1.013858
	1 3.039506 2.837255 -0.853142		1 -3.132595 2.582313 1.304833
	1 5.192808 2.060203 1.128325		1 -5.468195 1.835936 -0.433260
	1 5.700407 -0.836932 -2.894203		1 -5.037154 -1.660720 3.097231
	1 4.936936 -2.571682 -0.439321		1 -4.498005 -2.904219 0.322502
	1 2.778599 -1.798753 -2.389093		1 -2.153936 -2.159421 2.015853
	1 6.864230 -0.211589 -0.102991		1 -6.698246 -0.785138 0.646541
	1 5.869252 2.079129 -1.925251		1 -5.662424 1.330335 2.646330
	1 3.314928 1.073752 -3.346270		1 -2.827551 0.454587 3.514533
	6 2.136794 -1.954899 0.544676		6 -2.003659 -1.767254 -0.995295
	6 0.818301 -2.063784 0.162985		6 -0.644492 -1.658749 -1.067509
	6 2.329519 1.188318 1.677479		28 -0.176521 0.094817 -0.671380
	6 0.789302 1.291267 1.524971		6 -2.687263 1.405844 -1.536379
	28 0.393586 -0.265308 0.302632		6 -1.169341 1.651058 -1.661323
	15 -1.738994 -0.052952 -0.117302		15 1.808049 -0.174447 0.191707
	6 2.747547 -2.941163 1.553015		6 2.116518 1.189609 1.392410
	6 2.427282 -3.954338 1.292367		6 2.052218 2.509170 0.904790
	1 3.835162 -2.945384 1.462730		6 2.416693 0.971134 2.747095
	6 0.017658 -3.326181 0.347666		6 2.298786 3.585495 1.759967
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	1 0.088112 -3.943230 -1.750096		6 2.598194 3.363243 3.109755
	1 1.368901 -4.656970 -0.759310		1 2.260934 4.599811 1.369007
	1 -0.297260 -5.252917 -0.623226		1 2.891634 1.871532 4.645627
	6 2.372234 -2.660656 3.019583		1 2.789081 4.203895 3.773187
	1 2.745475 -1.686675 3.350942		6 3.126308 0.077464 -1.065142
	1 1.287358 -2.668615 3.165600		6 2.797300 0.075525 -2.429343
	1 2.807375 -3.423093 3.675515		6 4.458174 0.319068 -0.679207
	6 -2.179815 1.331411 -1.258330		6 3.786800 0.284708 -3.396259
	6 -1.213371 2.272837 -1.641517		1 1.764582 -0.066964 -2.738400
	6 -3.472267 1.422538 -1.809430		6 5.444291 0.526926 -1.645915
	6 -1.532149 3.292815 -2.545221		1 4.727461 0.357286 0.373791
	1 -0.205674 2.210948 -1.246674		6 5.111161 0.506122 -3.006794
	6 -3.793394 2.447681 -2.702180		1 3.518231 0.286504 -4.450142
	1 -4.230643 0.685776 -1.557383		1 6.470512 0.712491 -1.336910
	6 -2.822898 3.386795 -3.073484		1 5.879940 0.673871 -3.757815
	1 -0.767630 4.008635 -2.839208		6 2.209179 -1.716387 1.107396
	1 -4.798053 2.506097 -3.115135		6 1.309590 -2.137809 2.105087
	1 -3.070307 4.179300 -3.776376		6 3.351295 -2.489703 0.848273
	6 -2.567752 -1.459433 -0.985342		6 1.564082 -3.292879 2.847183
	6 -3.681919 -2.135104 -0.464983		1 0.404897 -1.568482 2.303386
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	6 -4.287602 -3.167823 -1.193321		1 4.050645 -2.199510 0.070296
	1 -4.088010 -1.861381 0.504475		6 2.709838 -4.056287 2.587932
	6 -2.677901 -2.858619 -2.973632		1 0.862518 -3.601683 3.618742
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	1 -5.150425 -3.683226 -0.776917		1 -3.240835 2.348902 -1.591539
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	1 -4.263498 -4.329708 -3.014244		1 -0.822937 1.382296 -2.664203
	6 -2.716246 0.158544 1.427305		6 -0.678864 2.992911 -1.381151
	6 -3.761974 1.082232 1.568968		6 -2.688009 -2.714804 -1.996984
	6 -2.384808 -0.669401 2.514951		1 -2.152703 -3.666447 -2.016087
	6 -4.474599 1.163636 2.770512		1 -3.694640 -2.952675 -1.650898
	1 -4.017134 1.755587 0.756994		6 -2.774874 -2.168568 -3.436079
	6 -3.103089 -0.594332 3.711054		1 -1.787072 -1.933765 -3.844170
	1 -1.557357 -1.370889 2.431715		1 -3.239058 -2.915494 -4.089939
	6 -4.152357 0.323708 3.841549		1 -3.380646 -1.260164 -3.489929
	1 -5.278389 1.889948 2.868995		6 0.268560 -2.658533 -1.691651
	1 -2.836945 -1.243846 4.542069		1 -0.087843 -2.815230 -2.717543
	1 -4.707616 0.389950 4.774579		1 1.273266 -2.245890 -1.800505
	1 2.747668 2.149390 1.995586		6 0.376008 -4.024585 -0.981057
	1 2.542191 0.485557 2.486177		1 0.794379 -3.918612 0.020980
	1 0.310947 0.882841 2.420500		1 -0.596553 -4.515157 -0.885640
	6 0.235107 2.647647 1.355852		1 1.033334 -4.686821 -1.554922
	8 -0.868131 3.021574 1.751473		8 0.356312 3.503062 -1.835956
	8 1.074111 3.502044 0.692488		8 -1.479661 3.700238 -0.516324
	6 0.603059 4.853405 0.532114		6 -1.053887 5.035053 -0.200903
	1 1.387683 5.372673 -0.020141		1 -1.816346 5.434828 0.470034
	1 -0.335459 4.874582 -0.026905		1 -0.081810 5.029137 2.898637
	1 0.450063 5.325927 1.506297		1 -0.987222 5.648641 -1.103800
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	6 3.113069 -0.515504 1.108553		6 3.192217 0.500407 -0.156645
	5 4.454454 -0.718762 0.077084		5 4.702200 -0.184683 -0.677353
	5 2.356454 1.010587 0.882107		5 2.395737 -0.516176 0.995331
	5 3.342310 0.671177 2.319453		5 3.222004 0.956812 1.512357
	5 4.663043 -0.403275 1.821842		5 4.656891 1.157945 0.478399
	5 4.985847 2.098234 0.444481		5 4.984475 -1.292191 1.968748
	5 4.684283 0.828723 -0.764186		5 4.891133 -1.699402 0.233192
	5 3.361251 1.913871 -0.272129		5 3.461473 -1.899944 1.270721

Species	Cartesian coordinates	Species	Cartesian coordinates
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	5 3.526193 2.220051 1.473339		5 3.418019 -0.558514 2.439334
	1 4.621008 -1.781193 -0.411787		1 4.967307 -0.075739 -1.823394
	1 1.179572 1.069994 0.911652		1 1.215593 -0.612498 0.933885
	1 2.774527 0.497172 3.344184		1 2.567116 1.887455 1.833478
	1 4.992697 -1.312088 2.505647		1 5.005223 2.229061 0.128724
	1 5.658723 3.037944 0.171367		1 5.622271 -1.958066 2.716367
	1 5.117018 0.815218 -1.859672		1 5.350298 -2.631042 -0.336119
	1 2.825209 2.624133 -1.051606		1 2.962310 -2.966467 1.392775
	1 6.831982 0.214491 0.539821		1 6.924320 -0.113084 0.617033
	1 5.632535 1.712442 2.966427		1 5.366081 1.115420 2.970163
	1 3.138961 3.233729 1.954676		1 2.920957 -0.686842 3.509032
	28 0.007062 -1.037321 0.082779		6 2.647206 -1.896911 -1.418217
	15 -1.755230 0.451815 -0.050639		6 1.409108 -1.236314 -2.049496
	6 0.985414 -0.779745 -1.491608		28 0.074584 -0.390241 -0.760937
	6 2.225876 -0.248597 -1.632730		6 2.386519 1.198151 -1.229269
	6 2.841866 -0.002521 -3.017693		6 1.286759 0.616249 -1.808407
	1 3.430780 0.916113 -3.004686		15 -1.809322 0.114239 0.335086
	1 2.037932 0.196331 -3.729288		1 3.386104 -2.061344 -2.206850
	6 2.291613 -1.748061 1.526716		1 2.372651 -2.878827 -1.031212
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	1 1.732920 -1.454719 2.417448		1 4.006114 2.477201 -1.830000
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	6 0.193992 -1.331771 -2.673041		1 1.537402 3.860068 -0.617697
	1 -0.832430 -0.950523 -2.635873		1 2.982234 4.673506 -1.246217
	1 0.602925 -0.992643 -3.630174		1 3.091617 3.658590 0.195693
	6 0.122779 -2.872318 -2.710475		6 0.597150 1.209793 -3.043523
	1 1.121531 -3.315899 -2.779543		1 -0.027679 0.429542 -3.486160
	1 -0.361090 -3.279284 -1.817756		1 1.348676 1.459409 -3.806173
	1 -0.452715 -3.199208 -3.583771		6 -0.295367 2.435677 -2.787528
	6 3.707982 -1.151094 -3.567665		1 -0.793043 2.728774 -3.718898
	1 4.099346 -0.892050 -4.558804		1 0.268774 3.298854 -2.427369
	1 4.561513 -1.366929 -2.919011		1 -1.066939 2.213006 -2.046723
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	6 -4.426924 0.553528 3.139912		6 -1.408988 -2.522344 3.467415
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	1 -0.630273 1.098450 2.544154		1 -2.948434 1.012892 2.993352
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	1 -3.998022 0.971122 5.216053		1 -2.068626 -2.357273 5.519449
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	6 -0.399860 3.719176 -2.154705		6 -3.312124 3.991098 0.548403
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	6 -1.866229 4.585096 -0.435169		6 -1.076731 3.995431 1.475106
	1 -2.748110 3.132476 0.881697		1 -0.046529 2.108445 1.473293
	6 -1.024183 4.805528 -1.530616		6 -2.250058 4.683415 1.137803
	1 0.263340 3.882271 -3.001271		1 -4.225457 4.517396 0.279294
	1 -2.352279 5.423703 0.058630		1 -0.243469 4.526448 1.930236
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	6 -3.123967 -0.145227 -1.130605		6 -3.379249 -0.418304 -0.474290
	6 -3.981325 0.719611 -1.830646		6 -4.548074 -0.723419 0.244982
	6 -3.316381 -1.533789 -1.243951		6 -3.398511 -0.504792 -1.876619
	6 -5.015752 0.204233 -2.619692		6 -5.716350 -1.094960 -0.428283
	1 -3.845101 1.795835 -1.767982		1 -4.552608 -0.678487 1.330668
	6 -4.355827 -2.048116 -2.023828		6 -4.570431 -0.866573 -2.549310
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	1 -5.670467 0.885016 -3.159327		1 -6.613110 -1.332274 0.140098
	1 -4.491855 -3.124580 -2.099896		1 -4.570107 -0.930075 -3.635243
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	6 -2.152723 0.546846 -0.860166		6 1.086582 -0.854106 -0.875282
	5 -2.298893 -1.058621 -1.505146		5 2.370280 0.227810 -1.298742
	5 -2.214270 0.616993 0.859319		5 0.910580 -1.100234 0.821165
	5 -3.590051 1.128849 -0.132619		5 1.620420 -2.346035 -0.221540
	5 -3.638203 0.104299 -1.587698		5 2.513104 -1.529437 -1.529176
	5 -4.042649 -1.594518 0.710298		5 3.766186 -0.834639 0.974927
	5 -2.529399 -2.092192 -0.086535		5 3.123291 0.655104 0.243192
	5 -2.471188 -1.063218 1.366785		5 2.220344 -0.151701 1.548925
	5 -3.926352 -1.583535 -1.078275		5 3.848209 -0.598020 -0.800648
	5 -4.738879 -0.232089 -0.224022		5 3.393682 -2.197269 -0.127362
	5 -3.839546 0.086700 1.293952		5 2.387987 -1.920836 1.331510

Species	Cartesian coordinates	Species	Cartesian coordinates
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1	-3.806244 2.289182 -0.221159	1	0.966262 -3.302269 -0.461858
1	-3.887451 0.585125 -2.640785	1	2.452498 -1.947676 -2.635338
1	-4.704385 -2.387090 1.295527	1	4.733194 -0.798025 1.661889
1	-2.029429 -3.160662 -0.080001	1	3.548068 1.747425 0.384167
1	-1.937481 -1.438584 2.351063	1	2.013568 0.400628 2.572359
1	-4.494667 -2.353691 -1.779117	1	4.857919 -0.394692 -1.389046
1	-5.905772 -0.037621 -0.318521	1	4.092303 -3.149468 -0.242440
1	-4.342189 0.501043 2.285490	1	2.356115 -2.656826 2.261129
6	0.791937 0.208772 -0.476604	6	-0.817587 1.395057 -0.446085
6	0.012914 -0.812981 -0.046474	6	0.398743 1.545278 0.125975
6	0.247382 1.537981 -0.989545	6	0.823737 2.857030 0.776462
6	-1.175631 1.453811 -1.594782	1	1.909982 2.951164 0.746535
1	-1.594422 2.460663 -1.644634	1	0.441670 3.690714 0.181150
1	-1.092251 1.091716 -2.621976	6	-1.287274 0.100278 -1.093747
1	0.882145 1.815847 -1.837972	6	-0.169080 -0.742711 -1.729846
6	0.421135 2.729168 -0.031231	1	-0.546280 -1.746682 -1.933442
6	0.892831 2.620120 1.282465	1	0.103914 -0.293464 -2.686861
6	0.266977 5.025454 0.161636	1	-1.955844 0.374485 -1.922198
6	1.053259 3.778510 2.047040	6	-1.813015 2.537843 -0.561834
1	1.121239 1.649585 1.709129	1	-2.825145 2.132812 -0.460730
6	0.734468 5.013327 1.479415	6	0.351998 3.025283 2.236169
1	0.004730 5.966552 -0.321515	1	0.772548 2.254829 2.887033
1	1.417161 3.713664 3.070262	1	0.669443 4.000507 2.621365
1	0.841141 5.941579 2.034653	1	-0.738134 2.968671 2.314780
7	0.117262 3.919590 -0.580017	1	-1.695269 3.252732 0.254290
6	0.582058 -2.158734 0.299668	6	-1.702316 3.280422 -1.910226
6	1.017369 -3.008791 -0.730717	1	-2.466112 4.062431 -1.977745
6	0.682813 -2.601929 1.628096	1	-0.721200 3.752433 -2.025610
6	1.541441 -4.272029 -0.440458	1	-1.846988 2.603203 -2.759387
1	0.946481 -2.678486 -1.764307	6	-2.206259 -0.770188 -0.213773
6	1.209607 -3.863962 1.920076	8	-2.480861 -1.927957 -0.479377
1	0.363071 -1.955934 2.441295	8	-2.725283 -0.103732 0.830066
6	1.638496 -4.705160 0.886857	6	-3.655593 -0.843290 1.659316
1	1.874056 -4.916498 -1.251351	1	-3.160360 -1.712959 2.096468
1	1.287331 -4.187842 2.955711	1	-3.964751 -0.145409 2.436728
1	2.046737 -5.687468 1.114189	1	-4.514052 -1.167874 1.067289
6	2.285154 0.080378 -0.533144		
6	3.047971 -0.197514 0.614554		
6	2.961890 0.262883 -1.753487		
6	4.440704 -0.292355 0.545604		
1	2.552380 -0.336073 1.571163		
6	4.353809 0.155355 -1.827443		
1	2.399878 0.466754 -2.662775		
6	5.100726 -0.119210 -0.676175		
1	5.010069 -0.500968 1.448806		
1	4.853171 0.286005 -2.784968		
1	6.184359 -0.196014 -0.730586		

Table S10 The first three vibration frequencies for stationary points on potential energy surfaces from INT1_I and R3 to products P1 and P2, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	Frequencies (cm ⁻¹)						
TS2 I 1a	-242i 17 22	INT2 I 1a	11 21 33	TS3 I 1a	-117i 14 18	INT3 I 1a	14 21 28
TS4 I 1a	-295i 12 17	TS2 I 2a	-352i 15 24	INT2 I 2a	18 20 31	TS3 I 2a	-219i 14 21
INT3 I 2a	15 19 26	TS4 I 2a	-194i 12 18	TS2 I 1b	-219i 16 21	INT2 I 1b	8 13 28
TS3 I 1b	-86i 12 16	INT3 I 1b	9 15 19	TS4 I 1b	-290i 10 23	TS2 I 2b	-341i 13 24
INT2 I 2b	9 16 23	TS3 I 2b	-219i 14 17	INT3 I 2b	18 21 24	TS4 I 2b	-189i 10 16
TS2 I 3b	-196i 14 25	INT2 I 3b	12 22 29	TS3 I 3b	-106i 14 21	INT3 I 3b	13 17 20
TS4 I 3b	-288i 12 13	TS2 I 4b	-325i 21 22	INT2 I 4b	17 18 25	TS3 I 4b	-169i 14 21
INT3 I 4b	16 23 29	TS4 I 4b	-206i 14 18	TS2 I 1c	-217i 14 19	INT2 I 1c	9 18 23
TS3 I 1c	-89i 16 18	INT3 I 1c	11 18 23	TS4 I 1c	-289i 10 21	TS2 I 2c	-343i 15 21
INT2 I 2c	9 17 22	TS3 I 2c	-209i 15 18	INT3 I 2c	15 20 23	TS4 I 2c	-190i 11 21
TS2 I 3c	-212i 9 18	INT2 I 3c	13 17 21	TS3 I 3c	-107i 13 20	INT3 I 3c	16 16 21
TS4 I 3c	-278i 10 17	TS2 I 4c	-323i 20 24	INT2 I 4c	13 15 18	TS3 I 4c	-204i 14 21
INT3 I 4c	14 20 26	TS4 I 4c	-227i 16 20	TS2 I 1d	-188i 13 23	INT2 I 1d	13 19 24
TS3 I 1d	-79i 16 19	INT3 I 1d	11 15 22	TS4 I 1d	-275i 10 16	TS2 I 2d	-330i 18 26
INT2 I 2d	15 15 23	TS3 I 2d	-189i 17 18	INT3 I 2d	13 17 18	TS4 I 2d	-206i 13 14
TS2 I 1e	-287i 12 29	INT2 I 1e	16 26 28	TS3 I 1e	-92i 14 19	INT3 I 1e	13 18 20
TS4 I 1e	-295i 11 17	TS2 I 2e	-361i 22 28	INT2 I 2e	23 26 38	TS3 I 2e	-149i 16 25
INT3 I 2e	15 18 28	TS4 I 2e	-258i 10 18	CAT	6 15 16	P1a	32 43 62
P1b	31 35 54	P2b	27 33 54	P1c	24 32 35	P2c	23 31 37
P1d	23 29 49	P1e	39 50 66				

Table S11 The total energies (E : a.u.), zero-point energies (ZPE : kcal·mol⁻¹) and Gibbs free energies [G and $G(\text{sol},383\text{K})$: a.u.] for stationary points on potential energy surfaces from INT1_I and R3 to products P1 and P2, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	E	ZPE	G	$G(\text{sol},383\text{K})$
TS2_I_1a	-3435.67013	437.94438	-3435.04569	-3435.06737
INT2_I_1a	-3435.70198	439.63000	-3435.07548	-3435.09627
TS3_I_1a	-3435.69668	439.09976	-3435.07155	-3435.09375
INT3_I_1a	-3435.70681	439.29400	-3435.08299	-3435.10594
TS4_I_1a	-3435.68980	438.34420	-3435.06620	-3435.08901
TS2_I_2a	-3435.63721	437.28894	-3435.01448	-3435.03587
INT2_I_2a	-3435.67665	438.76677	-3435.05096	-3435.07294
TS3_I_2a	-3435.66148	438.31562	-3435.03629	-3435.05800
INT3_I_2a	-3435.71015	439.61423	-3435.08382	-3435.10564
TS4_I_2a	-3435.69445	439.32801	-3435.06737	-3435.08870
TS2_I_1b	-3588.10129	453.17306	-3587.45477	-3587.47841
INT2_I_1b	-3588.14123	454.49826	-3587.49500	-3587.51928
TS3_I_1b	-3588.13722	454.22256	-3587.49131	-3587.51477
INT3_I_1b	-3588.15167	454.67378	-3587.50638	-3587.52961
TS4_I_1b	-3588.12408	453.25889	-3587.47868	-3587.50231
TS2_I_2b	-3588.06955	452.29083	-3587.42527	-3587.44768
INT2_I_2b	-3588.10921	453.52206	-3587.46416	-3587.48828
TS3_I_2b	-3588.09658	452.93743	-3587.45191	-3587.47484
INT3_I_2b	-3588.14719	454.39867	-3587.49938	-3587.52325
TS4_I_2b	-3588.12858	453.96741	-3587.48171	-3587.50503
TS2_I_3b	-3588.09936	453.09535	-3587.45289	-3587.47657
INT2_I_3b	-3588.13668	454.44009	-3587.49008	-3587.51393
TS3_I_3b	-3588.13461	453.92261	-3587.48936	-3587.51358
INT3_I_3b	-3588.14270	454.04466	-3587.49958	-3587.52441
TS4_I_3b	-3588.12127	453.08523	-3587.47747	-3587.50178
TS2_I_4b	-3588.07492	452.50169	-3587.42988	-3587.45152
INT2_I_4b	-3588.11011	453.84773	-3587.46282	-3587.48604
TS3_I_4b	-3588.10439	453.17310	-3587.45920	-3587.48336
INT3_I_4b	-3588.14772	454.73687	-3587.49946	-3587.52178
TS4_I_4b	-3588.13024	454.09022	-3587.48288	-3587.50602
TS2_I_1c	-3666.73649	488.61648	-3666.03833	-3666.06446
INT2_I_1c	-3666.77531	490.27092	-3666.07660	-3666.10291
TS3_I_1c	-3666.77157	489.98332	-3666.07207	-3666.09726
INT3_I_1c	-3666.78616	490.45316	-3666.08755	-3666.11398
TS4_I_1c	-3666.75837	488.93361	-3666.06075	-3666.08737
TS2_I_2c	-3666.70144	488.18870	-3666.00328	-3666.02890
INT2_I_2c	-3666.73855	489.09253	-3666.04063	-3666.06677
TS3_I_2c	-3666.72871	488.83052	-3666.03063	-3666.05510
INT3_I_2c	-3666.78134	490.03211	-3666.08147	-3666.10836
TS4_I_2c	-3666.76306	489.65094	-3666.06337	-3666.08836
TS2_I_3c	-3666.73406	488.40720	-3666.03682	-3666.06330
INT2_I_3c	-3666.77226	490.18865	-3666.07354	-3666.10050
TS3_I_3c	-3666.76485	489.70444	-3666.06581	-3666.09108
INT3_I_3c	-3666.78602	490.05304	-3666.08861	-3666.11516
TS4_I_3c	-3666.75734	488.82791	-3666.06026	-3666.08544
TS2_I_4c	-3666.70940	488.18984	-3666.01172	-3666.03795
INT2_I_4c	-3666.74133	489.24742	-3666.04324	-3666.06965
TS3_I_4c	-3666.73436	488.88383	-3666.03638	-3666.06126
INT3_I_4c	-3666.78196	490.46665	-3666.08112	-3666.10651
TS4_I_4c	-3666.76581	489.89410	-3666.06537	-3666.09023
TS2_I_1d	-3740.53141	468.18616	-3739.86330	-3739.88817
INT2_I_1d	-3740.57354	469.53023	-3739.90588	-3739.93088
TS3_I_1d	-3740.57064	469.11286	-3739.90338	-3739.92797
INT3_I_1d	-3740.58639	469.66918	-3739.91953	-3739.94574
TS4_I_1d	-3740.55580	468.03057	-3739.89002	-3739.91486
TS2_I_2d	-3740.50498	467.53136	-3739.83836	-3739.86227
INT2_I_2d	-3740.53999	468.15989	-3739.87421	-3739.89885
TS3_I_2d	-3740.53252	467.98058	-3739.86652	-3739.89089
INT3_I_2d	-3740.58457	468.89606	-3739.91984	-3739.94605
TS4_I_2d	-3740.56338	468.82389	-3739.89597	-3739.92003
TS2_I_1e	-3416.47247	422.04100	-3415.87279	-3415.89493
INT2_I_1e	-3416.50588	423.09091	-3415.90632	-3415.92844
TS3_I_1e	-3416.49809	422.90186	-3415.89859	-3415.92107
INT3_I_1e	-3416.50824	422.90225	-3415.91159	-3415.93376
TS4_I_1e	-3416.49141	421.94612	-3415.89449	-3415.91695

TS2_I_2e	-3416.44938	421.03050	-3415.85171	-3415.87422
INT2_I_2e	-3416.48423	422.60998	-3415.88330	-3415.90569
TS3_I_2e	-3416.47589	422.37138	-3415.87524	-3415.89714
INT3_I_2e	-3416.51359	423.28344	-3415.91374	-3415.93730
TS4_I_2e	-3416.49238	422.47236	-3415.89389	-3415.91589
CAT	-3580.76571	343.53280	-3580.29501	-3580.31504
P1a	-891.30878	268.62681	-890.92869	-890.93715
P1b	-1043.74263	283.37284	-1043.34215	-1043.34955
P2b	-1043.73919	283.57393	-1043.33829	-1043.34776
P1c	-1122.37701	319.05118	-1121.92428	-1121.93546
P2c	-1122.37509	319.30511	-1121.92141	-1121.93300
P1d	-1196.17225	298.24402	-1195.75107	-1195.76111
P1e	-872.11122	252.27379	-871.75691	-871.76499

Table S12 The optimized Cartesian coordinates (Å) for stationary points on potential energy surfaces from **INT1_III** and **R2** to products **P1**, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	Cartesian coordinates				Species	Cartesian coordinates			
TS2_III_1a	6	2.335498	1.938735	-0.089477	INT2_III_1a	6	2.440373	-1.590744	0.069884
	6	0.691836	1.784008	0.307580		6	0.956388	-1.375673	-0.850268
	5	1.900200	1.879016	1.558886		5	2.525269	-1.140178	-1.580595
	5	1.145459	2.733335	-1.045521		5	1.081088	-2.599742	0.351740
	5	-0.080862	3.311815	0.084435		5	0.315267	-2.903416	-1.221301
	5	0.381822	2.763801	1.687809		5	1.215734	-1.973361	-2.422557
	5	2.422132	4.588882	0.760135		5	2.996929	-3.961986	-1.336281
	5	3.173230	2.987529	0.987818		5	3.643297	-2.349751	-0.916425
	5	2.702118	3.527103	-0.637969		5	2.733795	-3.286465	0.282953
	5	1.927383	3.551090	2.133980		5	2.881382	-2.612850	-2.503203
	5	0.696324	4.460215	1.207157		5	1.499677	-3.732401	-2.274387
	5	1.173121	4.430879	-0.517644		5	1.404483	-4.127934	-0.529021
	1	2.176175	0.941875	2.215769		1	2.902672	-0.059144	-1.872221
	1	0.944134	2.323538	-2.136283		1	0.498870	-2.479925	1.373280
	1	-1.210862	3.327538	-0.259226		1	-0.864314	-3.004834	-1.266600
	1	-0.428529	2.406656	2.474919		1	0.683356	-1.417149	-3.325068
	1	3.058840	5.582630	0.909025		1	3.734605	-4.882795	-1.486957
	1	4.298342	2.740052	1.258850		1	4.771494	-2.034776	-0.748226
	1	3.515344	3.673932	-1.484432		1	3.245947	-3.681169	1.269671
	1	2.200293	3.783590	3.267809		1	3.517714	-2.549437	-3.505436
	1	0.085944	5.361743	1.686649		1	1.147837	-4.488352	-3.122578
	1	0.914551	5.297654	-1.289568		1	0.993045	-5.161263	-0.109446
	6	2.796973	0.698309	-0.812349		28	0.082241	0.318086	-0.251082
	6	2.037608	-0.434270	-0.725920		15	-2.060274	0.128829	0.053748
	6	1.730601	-1.506957	0.949981		6	2.815142	-0.602545	1.194072
	6	0.378191	-2.005719	0.830794		6	2.567931	0.737337	1.237930
	28	0.227012	-0.164640	0.124348		6	3.516235	-1.247647	2.393499
	15	-2.017187	-0.304680	0.034585		1	3.349773	-0.630588	3.274434
	6	3.912470	0.861681	-1.831906		1	3.032411	-2.199103	2.620916
	1	3.960235	-0.024595	-2.464001		6	3.077551	1.608066	2.393403
	1	3.687186	1.701323	-2.498689		1	4.074848	1.277326	2.694353
	6	2.065459	-1.494522	-1.826175		1	3.213357	2.626827	2.016184
	1	3.090532	-1.807675	-2.054643		6	2.181031	1.694567	3.649668
	1	1.556397	-2.400535	-1.493753		1	1.257426	2.244060	3.452814
	6	1.366691	-1.027958	-3.117261		1	1.906188	0.707995	4.034410
	1	0.311112	-0.809383	-2.925499		1	2.714245	2.227883	4.444390
	1	1.824121	-0.126065	-3.533764		6	5.033851	-1.475786	2.250537
	1	1.411590	-1.815192	-3.878595		1	5.271947	-2.202177	1.471815
	6	5.307647	1.074378	-1.207725		1	5.555320	-0.542957	2.009096
	1	5.376418	2.017534	-0.662407		1	5.440511	-1.852436	3.195848
	1	5.551466	0.263133	-0.515313		6	1.765997	1.533522	0.210412
	1	6.064174	1.089687	-2.000538		6	0.387088	1.960311	0.655266
	1	1.892800	-0.842298	1.792669		6	-2.966195	1.596884	0.719671
	1	0.189292	-2.863120	0.189139		6	-2.824881	2.813935	0.027761
	1	-0.215509	-2.014940	1.744193		6	-3.813600	1.545712	1.836511
	6	2.957264	-2.375457	0.811168		6	-3.515897	3.953201	0.444377
	6	2.879506	-3.732019	0.459744		1	-2.177621	2.873193	-0.844701
	6	5.230920	-2.541841	1.157576		6	-4.499832	2.692038	2.259159
	6	4.047724	-4.498307	0.441465		1	-3.952677	0.616708	2.381271
	1	1.924458	-4.189647	0.222163		6	-4.353881	3.896915	1.566255
	6	5.255588	-3.893772	0.792206		1	-3.398028	4.885123	-0.104192
	1	6.149113	-2.038272	1.459927		1	-5.151758	2.636244	3.128264
	1	4.009364	-5.550358	0.167452		1	-4.888833	4.785417	1.894327
	1	6.190562	-4.448056	0.797968		6	-2.448456	-1.234496	1.226280
	7	4.120301	-1.797497	1.167193		6	-3.189715	-2.367755	0.859704
	6	-2.607020	-1.846415	-0.816633		6	-1.918571	-1.157202	2.528128
	6	-2.638925	-3.058758	-0.100572		6	-3.413765	-3.395559	1.783879
	6	-2.968195	-1.860595	-2.173489		1	-3.591175	-2.462146	-0.144792
	6	-3.023700	-4.247635	-0.724810		6	-2.152584	-2.177851	3.451852
	1	-2.382695	-3.081220	0.955062		1	-1.321659	-0.297931	2.827143
	6	-3.348377	-3.054056	-2.799820		6	-2.901907	-3.302015	3.081460
	1	-2.973398	-0.943161	-2.753041		1	-3.987415	-4.269771	1.483996
	6	-3.376747	-4.251738	-2.079966		1	-1.742243	-2.099957	4.456203
	1	-3.050551	-5.170485	-0.149325		1	-3.078315	-4.101212	3.797950

Species	Cartesian coordinates	Species	Cartesian coordinates
	1 -3.628691 -3.040187 -3.850837		6 -3.002828 -0.205944 -1.491218
	1 -3.677042 -5.177443 -2.565786		6 -4.410185 -0.205395 -1.498379
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 3.588319 -2.395988 -0.099729		6 1.257587 1.208568 2.268726
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 4.210339 1.638835 0.530717		6 2.873321 -3.068246 3.108381
	6 2.612026 2.723790 1.476327		1 1.408983 -1.707288 2.313971
	1 2.391339 2.007557 2.278732		6 4.198087 -3.516590 3.048391
	1 1.662681 3.194407 1.197884		1 6.117387 -3.284448 2.082976
	1 0.840394 0.355949 -1.662542		1 2.173375 -3.517914 3.808934
	1 -0.720421 2.280148 -0.420394		1 4.533267 -4.316960 3.704246
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	6 1.789103 4.381655 -3.828974		1 2.879901 -1.260942 -2.400861
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	1 0.702667 5.533639 -2.356984		1 6.840721 1.695375 -1.848812
	1 1.934269 5.219088 -4.506552		1 4.544655 -1.073892 -4.226007
	7 0.883500 3.567813 -1.742725		1 6.530741 0.408056 -3.958837
	6 4.052015 -0.691576 0.764568		6 -3.910639 -0.396074 1.019931
	6 5.322561 -0.799560 0.175977		6 -5.225853 -0.232382 0.554175
	6 3.952876 -0.760191 2.163620		6 -3.713751 -0.654407 2.386114
	6 6.463739 -0.977842 0.964621		6 -6.314003 -0.321635 1.428632
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	6 5.092100 -0.941465 2.955032		6 -4.799007 -0.743837 3.263965
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	1 4.993672 -0.993721 4.037410		1 -4.623092 -0.944649 4.318790
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	1 2.055999 5.086165 2.933558		1 -0.588910 4.060953 3.839214
	1 2.771657 3.906374 4.041483		1 -2.032949 4.849051 4.494426
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	5 0.346878 -2.943816 -1.287925		5 0.733060 -4.311204 -0.379414
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	5 -0.621303 -4.125156 -0.383978		5 2.368700 -4.757839 0.113227
	5 -0.494060 -4.222996 -2.176620		5 1.000906 -4.912621 1.262393
	5 -1.998548 -3.539436 -2.877400		5 1.039413 -3.500685 2.354286
	1 -0.372555 -1.888853 1.086996		1 2.435492 -3.046639 -1.950239
	1 -2.597510 -0.948322 -3.034147		1 0.304781 -1.055670 1.757916
	1 0.093078 -2.131291 -3.740491		1 -1.260160 -3.472976 1.071638
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	1 -2.598106 -5.563388 -1.323236		1 3.268407 -4.879319 2.580285
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	1 -0.119774 -4.905097 0.358440		1 2.921484 -5.683628 -0.383424
	1 0.115385 -5.077961 -2.732201		1 0.552842 -5.961151 1.594236
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 -2.280840 4.629451 -3.415465		6 -5.529423 -2.998319 -1.517669
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	6 -2.699644 3.741997 3.979313		6 3.956937 4.887062 -0.875375
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	5 0.979323 2.227478 1.990283		5 1.181446 -1.538297 -2.509176
	5 0.650362 2.803093 -0.781980		5 0.367229 -2.672446 -0.054488
	5 -0.764525 3.423314 0.071009		5 -0.863094 -3.081393 -1.265509
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	5 1.550922 4.871195 1.016501		5 1.605211 -4.346012 -2.062320
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	1 1.180165 1.362477 2.762770		1 1.482269 -0.522871 -3.031268
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	1 2.123062 5.902522 1.171003		1 2.221401 -5.330438 -2.318628
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	1 3.030505 3.787587 -0.918728		1 2.672820 -3.776100 0.293522
	1 0.937524 4.293611 3.522611		1 1.471157 -3.219937 -4.447781
	1 -0.931006 5.616669 1.468579		1 -0.730921 -4.920094 -3.114218
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	6 1.651725 -0.303970 0.028387		15 -2.576052 0.216665 0.349531
	6 0.916490 -1.207612 1.673345		6 2.359796 -0.746476 -0.055516
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	1 4.970001 -1.327536 3.580776		1 -4.504501 3.272017 3.847307
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	6 4.786636 1.267060 -2.939913		6 4.166160 -2.253693 2.955824
	1 2.656842 0.981354 -2.781499		1 2.144581 -1.652285 2.523898
	6 5.996679 1.406828 -2.249572		6 5.474938 -2.369750 2.472071
	1 6.935310 1.472779 -0.303527		1 6.781278 -2.031051 0.784109
	1 4.772842 1.294727 -4.027516		1 3.928336 -2.571611 3.968837
	1 6.927021 1.543636 -2.796587		1 6.259397 -2.778471 3.105339
	6 2.045772 -1.441621 -0.862883		6 2.968877 1.465931 0.910745
	6 3.314375 -2.050386 -0.824141		6 4.132910 2.135431 0.498779
	6 1.121881 -1.907327 -1.816652		6 2.519744 1.660853 2.229000
	6 3.646471 -3.078569 -1.709680		6 4.824782 2.977421 1.376428
	1 4.052282 -1.709919 -0.104943		1 4.514683 1.990733 -0.507126
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	1 0.137733 -1.448667 -1.874144		1 1.634044 1.135905 2.578645
	6 2.716474 -3.530433 -2.653079		6 4.362931 3.169846 2.682613
	1 4.635852 -3.528570 -1.660092		1 5.728127 3.480053 1.037178
	1 0.715082 -3.275158 -3.431103		1 2.842763 2.635440 4.123191
	1 2.976480 -4.331277 -3.341987		1 4.900302 3.825622 3.364167
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	5 0.287704 -4.664070 -1.898553		6 -0.401977 -1.995328 -1.156820
	5 2.316217 -3.609338 -0.149951		5 -0.924944 -2.925788 0.195580
	5 2.035716 -4.681976 -1.534989		5 -1.600592 -1.887562 -2.382244
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	1 -1.609422 -3.627496 -0.325949		5 -2.956646 -2.890227 -1.821502
	1 -0.288191 -5.604445 -2.344741		5 -1.102582 -4.591975 -0.404846
	1 3.172514 -3.714176 0.652608		5 -0.644812 -4.596003 -2.143968
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	1 3.766619 -2.709294 -2.104324		1 -0.633361 -2.561930 1.284555
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	5 -0.152697 -2.996915 -2.370037		1 -3.107396 -5.483649 -1.846917
	1 -1.018509 -2.675327 -3.115239		1 -3.349233 -3.658942 0.617143
	5 1.419028 -3.680531 -2.881670		1 -4.057316 -2.529805 -2.060867
	1 1.658337 -3.896324 -4.026315		1 -0.921575 -5.510356 0.326587
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	6 0.150209 -1.998459 -1.012956		1 -2.115289 -3.695599 -4.149373
	28 -0.803056 -0.242350 -0.527102		28 0.935804 -0.827960 -0.523178
	6 -0.198994 1.533379 -0.403651		15 2.827959 0.083106 0.342214
	6 1.097028 1.114913 -1.103666		6 -2.579490 -0.720644 -0.023517
	6 2.487022 -0.795157 -0.024044		6 -2.158237 0.570147 -0.084300
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	15 -2.721307 0.234335 0.305452		6 0.165389 0.589356 -1.514753
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	6 -4.587536 1.882769 -1.067735		1 -0.126980 0.224770 -2.498806
	6 -3.073769 3.023181 0.440906		1 0.963752 1.326437 -1.661239
	6 -5.155691 3.112429 -1.420972		6 -1.478165 2.402480 -1.712759
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	1 -3.015300 -1.097222 -2.248941		1 3.711233 0.481112 3.191770
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	1 -6.467904 -3.061847 0.739444		1 1.726552 2.778637 0.110787
	1 -4.562985 -2.816443 -3.120809		6 2.492212 3.658168 3.306566
	1 -6.297504 -3.810102 -1.630412		1 3.496711 2.390086 4.738902
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	6 -1.744766 -0.535763 2.809286		1 2.400333 4.499244 3.990180
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	6 -1.751776 -0.632138 4.204234		6 5.038595 -1.566137 1.109469
	1 -0.960983 -1.028373 2.239937		6 2.884163 -2.082995 2.093639
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	1 -0.971333 -1.196594 4.709487		1 1.821125 -1.877454 2.212237
	1 -4.541935 1.215520 4.857561		6 4.821545 -3.424115 2.656494
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	1 0.827937 0.336498 -1.834509		1 2.836739 -3.757680 3.448754
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	6 1.678840 2.234822 -1.984309		6 5.001537 1.616340 -0.688737
	6 2.500507 1.906788 -3.074927		6 3.934790 0.062988 -2.215837
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	1 3.660461 2.698947 -4.716420		6 5.815238 1.396381 1.963592
	1 1.608600 5.499844 -2.161265		1 6.653812 2.741784 -1.494132
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	7 1.371477 3.504456 -1.677480		1 6.510478 1.689235 -3.747268
	6 3.625411 -1.138653 0.905948		6 -3.736616 -1.048255 0.893098
	6 4.932238 -1.249181 0.406187		6 -5.047288 -1.170856 0.406835
	6 3.408670 -1.355896 2.275443		6 -3.507676 -1.255979 2.262804
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	6 4.470457 -1.682728 3.123972		6 -4.559221 -1.583157 3.124001
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	1 7.002229 -1.660131 0.845271		1 -7.111376 -1.583664 0.868771
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	6 2.872913 1.549995 0.669808		6 -2.912348 1.589464 0.745038
	6 4.036647 2.185227 0.206434		6 -4.155902 2.098127 0.338944
	6 2.357406 1.930249 1.920416		6 -2.336949 2.095994 1.922640
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	1 1.469319 1.438381 2.310323		1 -1.372080 1.719324 2.257071
	6 4.143567 3.544681 2.213509		6 -4.235249 3.564034 2.271521
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	1 2.571009 3.193542 3.653855		1 -2.534382 3.435082 3.599864
	1 4.634737 4.311602 2.808512		1 -4.746388 4.322922 2.859976
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	5 -1.777814 -1.740440 -2.628591		5 -1.082123 2.205283 1.246545
	5 -0.150566 -2.257831 -3.100532		5 -0.388355 3.704470 0.612942
	5 0.770453 -2.753364 -1.640689		5 -1.336446 4.194758 -0.797471

Species	Cartesian coordinates	Species	Cartesian coordinates
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	5 -2.592390 -3.115596 -1.863807		5 -2.751271 2.540060 1.799548
	5 -0.068053 -4.126038 -0.887490		5 -3.002976 4.496869 -0.302782
	5 0.036539 -3.985936 -2.678706		5 -1.640469 4.987708 0.755389
	5 -1.536984 -3.364333 -3.279254		5 -1.465620 3.752586 2.033895
	1 -0.005712 -2.081566 0.854343		1 -2.894414 2.506989 -2.100703
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	1 0.399406 -1.670191 -3.971138		1 0.783593 3.836067 0.671875
	1 1.941586 -2.528850 -1.585443		1 -0.826631 4.680585 -1.748330
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	1 -2.281687 -3.918967 0.565127		1 -4.804042 2.640191 0.199972
	1 -3.772623 -3.133068 -1.877733		1 -3.198420 1.838985 2.641512
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	1 0.712546 -4.703231 -3.341513		1 -1.324334 6.120740 0.917213
	1 -1.991373 -3.635368 -4.342129		1 -1.038006 3.984608 3.116584
	6 -2.587368 -0.911883 -0.077298		6 -2.708252 0.381737 -0.045173
	6 -2.374052 0.425344 -0.064165		6 -1.636717 -0.480218 -0.290877
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15	2.822207 0.098091 0.317361	15	1.444061 -1.025845 0.418696
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	6 6.721491 -1.197789 -0.408372		6 5.311093 -0.415512 1.811629
	1 5.698300 0.693733 -0.460617		1 4.290033 -1.972537 0.742964
	6 5.388260 -3.117249 0.218188		6 4.019069 1.566106 2.316012
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	1 7.494045 -3.211034 -0.267354		1 6.089952 1.298348 2.873989
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	6 -5.336996 2.396393 1.334598		6 -1.668625 -3.431759 -2.577034
	1 -5.030980 1.067750 -0.330731		1 -1.039052 -1.378425 -2.727303
	6 -3.412007 2.797887 2.738931		6 -2.540940 -4.115703 -0.430377
	1 -1.599254 1.794906 2.168650		1 -2.636998 -2.589653 1.083364
	6 -4.761487 3.023753 2.445373		6 -2.206544 -4.428286 -1.753789
	1 -6.383464 2.568989 1.091924		1 -1.396543 -3.661329 -3.605172

Species	Cartesian coordinates	Species	Cartesian coordinates
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	1 -5.356593 3.683498 3.072975		1 -2.359695 -5.434991 -2.136615
TS2_III_1e	6 -2.915142 -1.164554 -0.018982	INT2_III_1e	6 2.691028 -1.100009 0.196188
	6 -1.265734 -1.450562 0.274029		6 1.154836 -1.305773 -0.633249
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	5 -0.906648 -3.092862 -0.118773		5 0.689866 -2.935490 -0.534633
	5 -1.141440 -2.597392 1.550448		5 1.416739 -2.280117 -2.004859
	5 -3.612758 -3.780684 0.627458		5 3.474140 -3.692444 -0.562371
	5 -3.933363 -2.073309 1.029045		5 3.935760 -1.967360 -0.638535
	5 -3.689104 -2.559014 -0.662466		5 3.200273 -2.630804 0.832220
	5 -2.811399 -3.024226 2.040014		5 3.143531 -2.735929 -2.035828
	5 -1.889152 -4.115604 0.963165		5 1.920648 -3.890193 -1.413302
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	1 -2.403659 -0.452841 2.341365		1 2.880187 -0.121477 -2.115564
	1 -1.759295 -1.684658 -2.180391		1 0.932226 -1.800024 1.831265
	1 0.166358 -3.349428 -0.539483		1 -0.469237 -3.169421 -0.462845
	1 -0.231164 -2.519931 2.304494		1 0.781534 -2.051874 -2.980216
	1 -4.467142 -4.599688 0.743497		1 4.311976 -4.535209 -0.516390
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	1 -4.553133 -2.424968 -1.459112		1 3.798731 -2.682069 1.847406
	1 -3.078479 -3.285855 3.168496		1 3.723269 -2.881574 -3.063259
	1 -1.498726 -5.177847 1.328667		1 1.628351 -4.882716 -1.999560
	1 -2.427247 -4.641515 -1.570418		1 1.687122 -4.715900 1.086304
	6 -3.083463 0.208361 -0.617116	28	0.097207 0.382517 -0.455744
	6 -2.046499 1.093032 -0.518443	15	-1.991359 0.052771 0.041482
	6 -1.417620 1.883551 1.206805	6	2.980151 0.192116 0.986948
	6 0.008451 2.075459 1.110112	6	2.559044 1.454288 0.694651
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6	-4.266848 0.438749 -1.541028	1	2.934266 3.553324 0.917027
1	-4.100500 1.341493 -2.128568	6	2.112817 2.940887 2.804042
1	-4.350643 -0.384334 -2.258202	1	1.100933 3.262393 2.545102
6	-1.831251 2.205952 -1.544205	1	2.025639 2.065303 3.453890
1	-2.733278 2.819883 -1.661242	1	2.571057 3.747074 3.387393
1	-1.056634 2.891915 -1.199660	6	1.640029 1.831644 -0.460987
6	-1.393562 1.669358 -2.920082	6	0.223749 2.243959 -0.110940
1	-0.438889 1.139883 -2.840630	6	-3.031516 1.543255 0.378695
1	-2.123801 0.977994 -3.349262	6	-3.097060 2.528330 -0.624102
1	-1.256996 2.499753 -3.621892	6	-3.779092 1.718745 1.552617
6	-5.607948 0.598578 -0.792308	6	-3.891698 3.663444 -0.454810
1	-5.901917 -0.317335 -0.275867	1	-2.532660 2.407344 -1.546357
1	-5.548399 1.403178 -0.052696	6	-4.570052 2.862642 1.724771
1	-6.398462 0.848532 -1.508744	1	-3.760237 0.967861 2.336618
1	-1.757111 1.241675 2.013020	6	-4.628759 3.836738 0.724536
1	0.372266 2.936293 0.557338	1	-3.933969 4.413202 -1.241772
1	0.599445 1.829801 1.990814	1	-5.142905 2.984573 2.641482
6	-2.394465 3.047336 1.154526	1	-5.244756 4.723112 0.858972
6	2.779075 1.359292 -0.778064	6	-2.166870 -0.997371 1.540457
6	3.123745 2.471764 0.013753	6	-2.808554 -2.244890 1.524504
6	3.084559 1.390402 -2.148113	6	-1.581570 -0.545402 2.738104
6	3.757397 3.580888 -0.550907	6	-2.881610 -3.016784 2.690328
1	2.918872 2.473179 1.080735	1	-3.248651 -2.626850 0.608320
6	3.714664 2.505687 -2.714065	6	-1.665947 -1.311289 3.902577
1	2.851173 0.543907 -2.785650	1	-1.058293 0.408329 2.767050
6	4.052249 3.604862 -1.919740	6	-2.317251 -2.551213 3.881678
1	4.022977 4.425408 0.081294	1	-3.379120 -3.983662 2.662010
1	3.945859 2.506560 -3.777015	1	-1.214890 -0.944954 4.822045
1	4.545813 4.468792 -2.359172	1	-2.376631 -3.152206 4.786354
6	2.282280 -1.485463 -1.095041	6	-2.941652 -0.762071 -1.305998
6	3.263478 -2.441061 -0.788583	6	-4.340476 -0.895900 -1.226234
6	1.559236 -1.614132 -2.294295	6	-2.273788 -1.217543 -2.451847
6	3.526538 -3.493066 -1.673637	6	-5.051282 -1.493621 -2.269038
1	3.819126 -2.384231 0.142112	1	-4.879607 -0.528995 -0.356036
6	1.834338 -2.653881 -3.185160	6	-2.988424 -1.811157 -3.498786
1	0.762202 -0.913345 -2.529036	1	-1.197167 -1.107836 -2.530362
6	2.820343 -3.598217 -2.876360	6	-4.376219 -1.953027 -3.408209
1	4.283900 -4.230968 -1.418346	1	-6.131791 -1.595208 -2.195732
1	1.266207 -2.735878 -4.108993	1	-2.458300 -2.159218 -4.382447
1	3.027933 -4.416256 -3.562576	1	-4.932349 -2.413647 -4.221775
6	2.800773 -0.328550 1.567897	1	1.555688 0.891113 -1.120489
6	4.204497 -0.240277 1.624788	1	-0.220961 2.953895 -0.805915
6	2.089055 -0.626493 2.740284	1	0.031904 2.496064 0.929178
6	4.877823 -0.458741 2.828909	6	2.257010 2.722649 -1.563176
1	4.775832 0.006699 0.733326	6	3.818712 -0.013648 2.251005
6	2.764184 -0.843971 3.946560	1	3.612306 0.795296 2.948981
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1	5.962918 -0.389309 2.858719	1	5.643792 -0.964725 1.470994
1	2.198198 -1.073727 4.846462	1	5.711840 0.800440 1.508066
1	4.685210 -0.929363 4.930035	1	5.848229 -0.125596 3.012661
8	-3.554525 2.962829 1.519336	8	1.607340 3.284879 -2.424870
8	-1.818277 4.199845 0.765947	8	3.594646 2.762988 -1.481888
6	-2.680611 5.362360 0.746832	6	4.270487 3.546748 -2.497989
1	-2.049479 6.183652 0.408673	1	5.331578 3.459092 -2.267966
1	-3.512871 5.205792 0.056543	1	4.054408 3.141947 -3.488780
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Species	Cartesian coordinates	Species	Cartesian coordinates
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	5 -4.245892 1.763506 -0.638231		5 2.126868 -2.272820 2.002280
	5 -2.801855 1.149624 -1.471490		5 1.458061 -3.116779 0.594447
	5 -2.601436 3.759198 0.644372		5 4.322923 -3.342898 0.475559
	5 -1.953622 2.140509 1.040473		5 3.784571 -2.415551 -0.936114
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	1 -2.250609 5.042482 -1.623451		5 2.801275 -3.783237 -0.364137
	1 -4.397641 2.312848 1.882590		5 2.881739 -3.791339 1.431959
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	1 -5.260041 1.164188 -0.754342		1 1.338325 -2.061338 -1.811788
	1 -2.868035 0.191112 -2.157984		1 3.177304 0.134932 1.931327
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	5 -1.701934 2.493955 -1.775246		1 5.299218 -4.017472 0.406027
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	5 -3.466435 2.731825 -1.918143		1 5.433975 -0.905411 0.379046
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	1 2.626864 -2.815835 0.615913		1 1.308362 1.934343 -3.428206
	6 4.741071 -3.250814 -2.014259		1 0.320479 2.830784 -2.271608
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	1 3.968136 -4.563489 -0.478871		1 3.521019 -0.756820 -2.880324
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	1 1.521653 1.545246 -2.360866		6 2.055805 2.912561 1.327913
	6 3.663743 4.086771 -1.621951		6 -2.640214 1.439099 -0.889064
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	1 4.014122 5.035579 -2.022190		6 -3.414467 2.650696 -2.851763
	6 2.548460 -0.062894 1.811638		1 -3.356767 0.506070 -2.708995
	6 1.562078 0.282166 2.750796		6 -2.660148 3.874285 -0.905742
	6 3.831349 -0.422463 2.261948		1 -2.013018 2.698205 0.768194
	6 1.853690 0.272441 4.118310		6 -3.169039 3.868670 -2.210695
	1 0.566153 0.560294 2.415106		1 -3.814796 2.635914 -3.863108
	6 4.119082 -0.434022 3.629929		1 -2.469094 4.815872 -0.395878
	1 4.607577 -0.696272 1.551952		1 -3.374775 4.806930 -2.720986
	6 3.131936 -0.086678 4.560128		6 -2.886491 -1.480996 -1.032947
	1 1.081721 0.541272 4.835704		6 -4.133916 -2.079958 -0.792445
	1 5.114275 -0.714458 3.967509		6 -2.090677 -1.958226 -2.091389
	1 3.357841 -0.098495 5.624094		6 -4.580321 -3.128441 -1.603908
	6 -3.971750 -0.329304 2.187293		1 -4.758601 -1.738770 0.028271
	1 -3.668507 -1.124867 2.864453		6 -2.541449 -3.001660 -2.905030
	1 -3.797507 0.594099 2.741028		1 -1.118441 -1.509719 -2.290925
	6 -5.481993 -0.481438 1.917011		6 -3.787849 -3.589971 -2.661407
	1 -6.027100 -0.521016 2.866901		1 -5.547362 -3.585775 -1.406841
	1 -5.882561 0.351301 1.335789		1 -1.916452 -3.358280 -3.720552
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	6 -2.696492 -2.799070 1.431554		6 -3.219097 -0.082512 1.527143
	1 -2.512014 -3.672993 0.797623		6 -4.458832 0.575712 1.604001
	1 -3.744774 -2.883473 1.728491		6 -2.733149 -0.766647 2.654793
	6 -1.804382 -2.946135 2.685161		6 -5.201416 0.542258 2.788159
	1 -1.880826 -2.083574 3.353116		1 -4.846721 1.118162 0.745262
	1 -2.103751 -3.836129 3.249677		6 -3.480251 -0.803823 3.836279
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	1 -1.682165 -0.917109 -1.305042		6 -4.715003 -0.148562 3.904901
	1 0.484199 -2.392491 -1.054634		1 -6.159005 1.055776 2.837914
	1 0.145753 -2.293156 0.705571		1 -3.093891 -1.336183 4.702442
	6 -2.055202 -2.919207 -1.505531		1 -5.293689 -0.171258 4.825692
	8 -1.347740 -3.779882 -1.997527		8 1.428944 3.793252 1.898944
	8 -3.378721 -2.824157 -1.731726		8 3.378575 2.726777 1.491331
	6 -3.949740 -3.826817 -2.607282		6 4.039828 3.627177 2.410935
1 -5.011284 -3.588069 -2.663452	1 3.611357 3.529899 3.411065		
1 -3.489234 -3.771326 -3.596114	1 5.086058 3.322451 2.410492		
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TS4_III_1e	6 2.917755 1.342221 0.201676	TS2_III_2e	6 -3.188853 -0.912257 0.042983
	6 1.638944 1.235748 -0.837700		6 -2.626605 0.644060 -0.432267
	5 1.388215 2.044773 0.729372		5 -4.045988 0.001589 -1.140700

Species	Cartesian coordinates	Species	Cartesian coordinates
5	3.209633 1.502166 -1.500482	5	-2.453368 0.137100 1.216676
5	1.791498 2.366126 -2.115702	5	-2.979089 1.777833 0.819543
5	0.672129 2.741481 -0.761422	5	-4.011550 1.700242 -0.613685
5	3.147654 4.101857 -0.257866	5	-5.321429 0.194903 1.449857
5	2.917332 2.887901 1.024835	5	-4.887879 -0.931470 0.135975
5	4.024596 2.557775 -0.331433	5	-3.891119 -0.848252 1.606055
5	1.513835 3.784296 0.396528	5	-5.432502 0.712152 -0.264300
5	1.752808 3.996433 -1.376185	5	-4.771578 1.823742 0.977097
5	3.318523 3.237130 -1.819408	5	-3.795395 0.859735 2.118430
1	0.835562 1.487217 1.620189	1	-4.001215 -0.344598 -2.268947
1	3.759851 0.613792 -2.047506	1	-1.400651 -0.139010 1.667869
1	1.350043 2.050684 -3.169789	1	-2.222544 2.669171 0.983366
1	-0.508769 2.709782 -0.953128	1	-3.977750 2.545267 -1.440394
1	3.728668 5.113083 -0.034090	1	-6.283920 0.005838 2.119784
1	3.324090 2.950641 2.132304	1	-5.463113 -1.918378 -0.164809
1	5.176404 2.384822 -0.136776	1	-3.737171 -1.798766 2.295416
1	0.928431 4.554264 1.085686	1	-6.457023 0.894741 -0.835746
1	1.323437 4.928026 -1.974712	1	-5.322103 2.825625 1.299474
1	4.008008 3.620694 -2.706359	1	-3.645146 1.144869 3.261406
6	3.410775 0.095992 0.917977	6	-2.351820 -2.080336 -0.395407
6	2.883380 -1.142977 0.772388	6	-1.008827 -1.912699 -0.493679
6	1.775339 -1.576704 -0.184402	6	-1.517901 1.295894 -1.953719
6	1.285149 -0.598270 -1.256070	6	-0.104627 1.564783 -1.807031
28	-0.093996 0.686305 -0.425541	28	-0.412979 -0.075304 -0.619600
15	-2.157902 0.024587 0.032262	15	1.671579 -0.190299 0.104602
6	4.597134 0.321885 1.861216	6	-3.098050 -3.376100 -0.706227
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1	4.425527 -0.204472 2.804336	1	-3.898687 -3.530076 0.025519
6	3.320291 -2.289342 1.684284	6	-0.110922 -3.100339 -0.821609
1	3.299100 -3.235889 1.134371	1	-0.506593 -3.637198 -1.695727
1	4.352544 -2.170414 2.010534	1	0.879716 -2.754342 -1.129813
6	5.954545 -0.115825 1.270559	6	0.072192 -4.102685 0.339516
1	5.969557 -1.180399 1.019374	1	0.407686 -3.599723 1.247813
1	6.189405 0.439961 0.359202	1	-0.856832 -4.625616 0.581587
1	6.755433 0.071909 1.994590	1	0.821039 -4.858198 0.075604
6	2.416183 -2.434758 2.926813	6	-3.690755 -3.456546 -2.128263
1	2.760344 -3.267071 3.550049	1	-4.462646 -2.702878 -2.299949
1	2.431245 -1.525429 3.536810	1	-2.910927 -3.316988 -2.884868
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6	2.171058 -2.856417 -0.939296	6	0.364264 2.921866 -1.485031
6	-2.660312 -1.485859 -0.904317	6	2.096069 -1.405252 1.441405
6	-2.399298 -1.504236 -2.288138	6	2.948865 -2.499282 1.219622
6	-3.239158 -2.618418 -0.310696	6	1.532394 -1.241278 2.720312
6	-2.731947 -2.618590 -3.062447	6	3.251328 -3.389977 2.256067
1	-1.942707 -0.638635 -2.766391	1	3.378791 -2.677127 0.239675
6	-3.558946 -3.740982 -1.084968	6	1.829261 -2.134744 3.751794
1	-3.440890 -2.636165 0.756526	1	0.862226 -0.413501 2.929620
6	-3.311133 -3.743490 -2.461209	6	2.696145 -3.210997 3.525631
1	-2.531304 -2.611671 -4.131631	1	3.916881 -4.228220 2.062225
1	-4.002502 -4.612692 -0.608575	1	1.383480 -1.987193 4.732939
1	-3.561667 -4.615854 -3.060712	1	2.930710 -3.904194 4.330340
6	-2.520692 -0.374035 1.798409	6	2.915464 -0.528123 -1.209954
6	-3.822351 -0.354241 2.329663	6	4.300774 -0.556970 -0.953247
6	-1.449138 -0.706175 2.643372	6	2.468094 -0.823846 -2.508587
6	-4.045025 -0.671375 3.673179	6	5.208401 -0.834767 -1.977903
1	-4.666351 -0.084583 1.699729	1	4.681496 -0.390760 0.050347
6	-1.670876 -1.028934 3.986541	6	3.376662 -1.108474 -3.533169
1	-0.435468 -0.701764 2.249776	1	1.403711 -0.853106 -2.724054
6	-2.970519 -1.012215 4.504340	6	4.749851 -1.105001 -3.272864
1	-5.057280 -0.649860 4.071160	1	6.274011 -0.847926 -1.760382
1	-0.830023 -1.283518 4.627994	1	3.007849 -1.335264 -4.530816
1	-3.145222 -1.256056 5.549988	1	5.458407 -1.322884 -4.068804
6	-3.477435 1.255803 -0.378184	6	2.096524 1.420492 0.918132
6	-4.621312 0.948753 -1.131760	6	3.329712 2.075212 0.774144
6	-3.313730 2.567940 0.102761	6	1.126613 1.992862 1.761139
6	-5.581003 1.933431 -1.399414	6	3.600746 3.247181 1.488466
1	-4.773295 -0.056897 -1.513646	1	4.082491 1.701984 0.090410
6	-4.276950 3.546606 -0.153886	6	1.400842 3.158638 2.481098
1	-2.433968 2.827333 0.687915	1	0.142960 1.542771 1.852605
6	-5.413381 3.232972 -0.910860	6	2.644513 3.786544 2.354176
1	-6.460541 1.679997 -1.987509	1	4.560981 3.741135 1.357659
1	-4.136608 4.554692 0.230233	1	0.636367 3.579159 3.130673
1	-6.160133 3.996281 -1.118319	1	2.859359 4.695774 2.911244
8	3.322776 -2.703279 -1.623284	8	1.474456 3.353452 -1.784962
8	1.504121 -3.877593 -0.961088	8	-0.563612 3.679806 -0.844285
6	3.747669 -3.833141 -2.422052	6	-0.168918 5.028314 -0.523303
1	2.994027 -4.067638 -3.177246	1	0.063485 5.587153 -1.433759
1	4.679110 -3.520113 -2.892912	1	-1.027719 5.469625 -0.016426
1	3.912326 -4.705892 -1.786019	1	0.702835 5.024394 0.134522

Table S13 The first three vibration frequencies for stationary points on potential energy surfaces from INT1_III and R2 to products P1, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)	Species	Frequencies (cm ⁻¹)
TS2_III_1a	-302i 19 22	INT2_III_1a	11 21 23	TS3_III_1a	-117i 11 23	INT3_III_1a	10 15 20
TS4_III_1a	-404i 7 15	TS2_III_2a	-316i 18 20	TS2_III_1b	-309i 18 22	INT2_III_1b	10 19 25
TS3_III_1b	-133i 7 17	INT3_III_1b	10 13 19	TS4_III_1b	-410i 9 13	TS2_III_2b	-334i 14 20
TS2_III_1c	-307i 17 18	INT2_III_1c	11 15 20	TS3_III_1c	-132i 6 15	INT3_III_1c	9 16 19
TS4_III_1c	-408i 8 13	TS2_III_2c	-332i 13 17	TS2_III_1d	-309i 19 19	INT2_III_1d	7 22 23
TS3_III_1d	-118i 8 17	INT3_III_1d	10 15 19	TS4_III_1d	-411i 8 12	TS2_III_2d	-332i 16 25
TS2_III_1e	-307i 21 23	INT2_III_1e	9 21 26	TS3_III_1e	-128i 10 2	INT3_III_1e	7 19 22
TS4_III_1e	-406i 6 16	TS2_III_2e	-306i 21 26				

Table S14 The total energies (E : a.u.), zero-point energies (ZPE : kcal·mol⁻¹) and Gibbs free energies [G and $G(\text{sol},383\text{K})$: a.u.] for stationary points on potential energy surfaces from INT1_III and R2 to products P1, located at IDSCRF-B3LYP/DZVP level in THF solvent.

Species	E	ZPE	G	$G(\text{sol}, 383\text{K})$
TS2_III_1a	-3435.66262	438.02598	-3435.03760	-3435.05871
INT2_III_1a	-3435.69339	439.12738	-3435.06805	-3435.08968
TS3_III_1a	-3435.68660	439.12546	-3435.06166	-3435.08436
INT3_III_1a	-3435.70261	439.90946	-3435.07776	-3435.10029
TS4_III_1a	-3435.66907	437.79543	-3435.04784	-3435.07060
TS2_III_2a	-3435.63248	438.18234	-3435.00700	-3435.02942
TS2_III_1b	-3588.09505	452.76014	-3587.44964	-3587.47114
INT2_III_1b	-3588.12841	453.59516	-3587.48308	-3587.50542
TS3_III_1b	-3588.12160	453.46564	-3587.47745	-3587.50033
INT3_III_1b	-3588.13826	454.31484	-3587.49379	-3587.51768
TS4_III_1b	-3588.10372	452.43320	-3587.46246	-3587.48724
TS2_III_2b	-3588.06980	452.61760	-3587.42509	-3587.44890
TS2_III_1c	-3666.72934	488.45895	-3666.03134	-3666.05674
INT2_III_1c	-3666.76270	489.26683	-3666.06518	-3666.09144
TS3_III_1c	-3666.75581	489.09656	-3666.05973	-3666.08605
INT3_III_1c	-3666.77237	490.08238	-3666.07466	-3666.10138
TS4_III_1c	-3666.73794	488.12557	-3666.04418	-3666.07149
TS2_III_2c	-3666.70367	488.34417	-3666.00643	-3666.03222
TS2_III_1d	-3740.52779	467.67059	-3739.86068	-3739.88527
INT2_III_1d	-3740.55842	468.37033	-3739.89261	-3739.91865
TS3_III_1d	-3740.55378	468.20173	-3739.88894	-3739.91512
INT3_III_1d	-3740.56948	468.93941	-3739.90439	-3739.93049
TS4_III_1d	-3740.53463	467.14858	-3739.87259	-3739.89888
TS2_III_2d	-3740.51406	467.66653	-3739.84685	-3739.87098
TS2_III_1e	-3416.46174	421.75028	-3415.86254	-3415.88425
INT2_III_1e	-3416.49377	422.69035	-3415.89484	-3415.91768
TS3_III_1e	-3416.48831	422.63566	-3415.88995	-3415.91217
INT3_III_1e	-3416.50401	423.59093	-3415.90527	-3415.92825
TS4_III_1e	-3416.47035	421.49217	-3415.87524	-3415.89921
TS2_III_2e	-3416.44155	422.08502	-3415.84073	-3415.86289