

Supplementary Material

A highly accurate potential energy surface for carbonyl sulfide (OCS):
how important are the *ab initio* calculations?

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Computed rotation-vibration energy levels (in cm^{-1}) of OCS using the empirically refined CBS-HL^{ref} and VQZ-F12^{ref} PESs compared against the empirically-derived MARVEL energies. The residual errors (observed–calculated) are given in the last two columns. States are labelled by the total angular momentum quantum number J , the rotationless parity e/f , and normal mode vibrational quantum numbers for linear triatomic molecules v_1, v_2, v_3, L . Also given is the uncertainty (unc.) on the empirically-derived MARVEL energy level and the number of transitions (no. trans) that it was established from.

J	e/f	v_1	v_2	v_3	L	MARVEL	unc.	no. trans	VQZ-F12 ^{ref} (A)	CBS-HL ^{ref} (B)	o–c (A)	o–c (B)
0	e	0	0	0	0	0.0000	0.00E+00	33	0.0000	0.0000	0.0000	0.0000
0	e	1	0	0	0	858.9669	4.34E-05	5	859.0197	858.9611	-0.0528	0.0058
0	e	0	2	0	0	1047.0421	1.00E-06	7	1047.1248	1047.0428	-0.0828	-0.0007
0	e	2	0	0	0	1710.9763	1.27E-04	5	1711.0184	1710.9790	-0.0421	-0.0027
0	e	1	2	0	0	1892.2288	3.53E-03	2	1892.1685	1892.2455	0.0603	-0.0167
0	e	0	0	1	0	2062.2012	5.02E-03	2	2062.2377	2062.1997	-0.0365	0.0016
0	e	0	4	0	0	2104.8277	1.00E-04	4	2104.7183	2104.8538	0.1094	-0.0261
0	e	3	0	0	0	2555.9905	5.66E-03	1	2555.9217	2556.0040	0.0689	-0.0134
0	e	1	0	1	0	2918.1051	5.66E-03	1	2918.1557	2918.1251	-0.0506	-0.0200
0	e	0	2	1	0	3095.5544	3.56E-03	1	3095.6665	3095.5365	-0.1121	0.0179
0	e	2	0	1	0	3768.4957	1.00E-01	1	3768.5837	3768.4888	-0.0880	0.0070
0	e	1	2	1	0	3937.4274	3.00E-04	2	3937.3714	3937.4210	0.0560	0.0064
0	e	0	0	2	0	4101.4105	2.50E-02	2	4101.4002	4101.3881	0.0103	0.0223
0	e	0	4	1	0	4141.2227	2.50E-02	1	4141.3021	4141.2183	-0.0794	0.0044
0	e	1	0	2	0	4953.8791	3.03E-04	2	4953.9177	4953.8919	-0.0386	-0.0128
0	e	0	2	2	0	5120.9836	4.00E-04	2	5120.9858	5120.9906	-0.0023	-0.0070
0	e	2	0	2	0	5801.9064	6.00E-04	1	5801.8894	5801.9433	0.0171	-0.0369
0	e	0	0	3	0	6117.5764	6.00E-04	3	6117.5749	6117.5767	0.0016	-0.0002
0	e	3	0	2	0	6640.1048	4.50E-03	1	6640.1085	6640.1005	-0.0036	0.0043
0	e	2	0	3	0	7811.9533	4.50E-03	1	7811.9148	7811.9939	0.0385	-0.0406
0	e	0	0	5	0	10080.9027	1.00E-02	1	10080.8847	10080.8723	0.0180	0.0304
0	e	1	2	5	0	11886.1067	1.30E-02	1	11885.9760	11886.0825	0.1307	0.0242
1	e	0	0	0	0	0.4057	3.34E-08	83	0.4046	0.4057	0.0011	0.0000
1	e	0	1	0	1	520.8283	2.36E-06	26	520.8411	520.8291	-0.0128	-0.0008
1	e	1	0	0	0	859.3714	4.34E-05	19	859.4230	859.3656	-0.0516	0.0059
1	e	0	2	0	0	1047.4490	1.00E-06	21	1047.5307	1047.4497	-0.0817	-0.0006
1	e	1	1	0	1	1372.8643	1.31E-04	7	1372.8802	1372.8685	-0.0159	-0.0042
1	e	0	3	0	1	1573.7736	3.18E-06	9	1573.7722	1573.7724	0.0014	0.0012
1	e	2	0	0	0	1711.3796	1.27E-04	12	1711.4204	1711.3822	-0.0408	-0.0027
1	e	1	2	0	0	1892.6347	3.53E-03	5	1892.5732	1892.6513	0.0615	-0.0166
1	e	0	0	1	0	2062.6045	3.55E-03	6	2062.6399	2062.6029	-0.0354	0.0016
1	e	0	4	0	0	2105.2356	1.00E-04	4	2105.1251	2105.2616	0.1105	-0.0260

1	e	2	1	0	1	2218.4327	5.52E-03	2	2218.4703	2218.4288	-0.0376	0.0039
1	e	1	3	0	1	2412.5264	2.85E-02	3	2412.5189	2412.5322	0.0075	-0.0059
1	e	3	0	0	0	2556.3926	4.00E-03	3	2556.3224	2556.4059	0.0702	-0.0134
1	e	0	1	1	1	2575.7115	3.52E-03	1	2575.7525	2575.7082	-0.0410	0.0033
1	e	2	2	0	0	2731.8039	4.00E-03	1	2731.7252	2731.8124	0.0788	-0.0085
1	e	1	0	1	0	2918.5073	4.00E-03	2	2918.5568	2918.5273	-0.0494	-0.0200
1	e	0	3	1	1	3615.7503	3.53E-03	1	3616.0244	3615.7283	-0.2741	0.0220
1	e	2	0	1	0	3768.8971	1.00E-01	2	3768.9843	3768.8904	-0.0872	0.0067
1	e	1	2	1	0	3937.8310	3.00E-04	2	3937.7738	3937.8246	0.0573	0.0065
1	e	1	6	0	0	3990.5146	3.00E-04	1	3991.7836	3990.5217	-1.2690	-0.0070
1	e	0	0	2	0	4101.8114	2.50E-02	4	4101.8000	4101.7890	0.0113	0.0223
1	e	0	4	1	0	4141.6581	2.50E-02	2	4141.7066	4141.6239	-0.0485	0.0342
1	e	3	0	1	0	4610.2452	3.55E-03	1	4610.2127	4610.2684	0.0325	-0.0232
1	e	2	2	1	0	4773.5636	5.10E-02	2	4773.6303	4773.5970	-0.0667	-0.0335
1	e	1	0	2	0	4954.2790	4.00E-04	3	4954.3165	4954.2920	-0.0375	-0.0130
1	e	1	4	1	0	4970.8345	4.00E-04	1	4970.6873	4970.8312	0.1473	0.0033
1	e	0	2	2	0	5121.3855	4.00E-04	2	5121.3869	5121.3929	-0.0014	-0.0074
1	e	2	3	1	1	5280.9431	4.00E-04	1	5281.1976	5280.9610	-0.2545	-0.0180
1	e	2	0	2	0	5802.3059	4.02E-04	3	5802.2873	5802.3424	0.0186	-0.0365
1	e	1	2	2	0	5959.7304	6.00E-04	1	5959.6561	5959.7184	0.0744	0.0121
1	e	0	0	3	0	6117.9749	6.00E-04	5	6117.9724	6117.9752	0.0025	-0.0002
1	e	5	0	1	0	6273.5122	4.50E-03	1	6273.2516	6273.4505	0.2606	0.0617
1	e	4	2	1	0	6429.4887	4.50E-03	1	6432.6284	6429.8378	-3.1397	-0.3491
1	e	0	1	3	1	6616.2524	6.00E-04	1	6616.1775	6616.2606	0.0749	-0.0082
1	e	3	0	2	0	6640.5022	4.50E-03	1	6640.5046	6640.4979	-0.0024	0.0042
1	e	1	0	3	0	6966.5713	1.00E-03	2	6966.6002	6966.5474	-0.0289	0.0239
1	e	3	5	1	1	7116.9108	5.50E-03	1	7118.3222	7116.9936	-1.4114	-0.0828
1	e	1	2	3	0	7958.4386	4.50E-03	1	7958.3208	7958.3838	0.1179	0.0548
1	e	0	0	5	0	10081.2861	1.00E-02	2	10081.2778	10081.2662	0.0083	0.0199
1	e	0	4	4	0	10114.4241	1.00E-02	1	10114.4645	10114.4094	-0.0403	0.0148
1	e	2	4	4	0	11741.4442	5.40E-03	2	11741.3755	11741.6672	0.0687	-0.2230
1	e	2	0	5	0	11762.3841	1.00E-02	1	11762.3476	11762.3180	0.0365	0.0662
1	e	1	2	5	0	11886.5161	1.00E-02	1	11886.3695	11886.4792	0.1467	0.0369
1	e	0	0	6	0	12028.2901	1.00E-02	1	12028.1585	12028.3106	0.1316	-0.0205
1	e	2	2	5	0	12707.3341	1.06E-02	1	12708.0575	12707.2766	-0.7234	0.0575
1	f	0	1	0	1	520.8287	2.36E-06	21	520.8415	520.8296	-0.0128	-0.0008
1	f	1	1	0	1	1372.8647	6.67E-04	7	1372.8806	1372.8690	-0.0159	-0.0043
1	f	0	3	0	1	1573.7744	3.18E-06	10	1573.7730	1573.7732	0.0014	0.0012
1	f	2	1	0	1	2218.4332	5.52E-03	2	2218.4708	2218.4293	-0.0376	0.0039
1	f	1	3	0	1	2412.5266	2.85E-02	3	2412.5198	2412.5331	0.0068	-0.0065
1	f	0	1	1	1	2575.7119	3.52E-03	1	2575.7530	2575.7087	-0.0410	0.0033
1	f	1	1	1	1	3424.5428	3.65E-03	1	3424.3803	3424.5483	0.1625	-0.0055
1	f	0	3	1	1	3615.7512	3.53E-03	1	3616.0253	3615.7292	-0.2741	0.0220
1	f	0	1	3	1	6616.2524	6.00E-04	1	6616.1779	6616.2611	0.0745	-0.0087
1	f	3	5	1	1	7116.9121	5.50E-03	1	7118.3234	7116.9949	-1.4113	-0.0829
2	e	0	0	0	0	1.2171	5.78E-08	107	1.2139	1.2170	0.0032	0.0001
2	e	0	1	0	1	521.6407	2.13E-06	41	521.6514	521.6415	-0.0107	-0.0007
2	e	1	0	0	0	860.1804	4.34E-05	15	860.2297	860.1745	-0.0493	0.0059
2	e	0	2	0	2	1042.5109	1.44E-02	5	1042.5853	1042.5132	-0.0744	-0.0022
2	e	0	2	0	0	1048.2629	1.00E-06	19	1048.3424	1048.2634	-0.0795	-0.0005
2	e	1	1	0	1	1373.6745	1.30E-04	11	1373.6880	1373.6786	-0.0135	-0.0041
2	e	0	3	0	1	1574.5878	3.18E-06	11	1574.5842	1574.5864	0.0036	0.0014
2	e	2	0	0	0	1712.1861	1.27E-04	9	1712.2244	1712.1887	-0.0383	-0.0026
2	e	1	2	0	2	1888.1629	1.58E-02	2	1888.2514	1888.1554	-0.0885	0.0075
2	e	1	2	0	0	1893.4465	3.53E-03	5	1893.3826	1893.4630	0.0639	-0.0165
2	e	0	0	1	0	2063.4111	3.55E-03	6	2063.4444	2063.4095	-0.0333	0.0016
2	e	0	4	0	2	2100.7452	1.44E-02	3	2100.7615	2100.7556	-0.0163	-0.0103

2	e	0	4	0	0	2106.0516	1.00E-04	4	2105.9388	2106.0773	0.1127	-0.0258
2	e	2	1	0	1	2219.2405	3.90E-03	4	2219.2756	2219.2365	-0.0351	0.0040
2	e	1	3	0	1	2413.3385	2.85E-02	4	2413.3287	2413.3442	0.0099	-0.0057
2	e	3	0	0	0	2557.1966	4.00E-03	2	2557.1237	2557.2098	0.0729	-0.0133
2	e	0	1	1	1	2576.5196	4.30E-03	3	2576.5580	2576.5159	-0.0384	0.0038
2	e	0	5	0	1	2636.8151	5.00E-03	3	2636.8293	2636.7857	-0.0142	0.0294
2	e	2	2	0	0	2732.6136	4.00E-03	2	2732.5323	2732.6219	0.0814	-0.0082
2	e	1	0	1	0	2919.3117	3.53E-03	1	2919.3588	2919.3317	-0.0471	-0.0200
2	e	1	4	0	0	2938.3675	4.00E-03	1	2938.2846	2938.3207	0.0830	0.0469
2	e	1	1	1	1	3425.3474	1.67E-04	1	3425.1829	3425.3533	0.1645	-0.0059
2	e	0	3	1	1	3616.5599	3.53E-03	1	3616.8316	3616.5378	-0.2717	0.0221
2	e	2	4	0	0	3764.0412	3.55E-03	1	3764.1914	3763.9816	-0.1502	0.0596
2	e	2	0	1	0	3769.7023	3.55E-03	3	3769.7855	3769.6936	-0.0832	0.0086
2	e	1	2	1	2	3932.5093	1.62E-02	1	3932.6018	3932.5536	-0.0925	-0.0443
2	e	1	2	1	0	3938.6384	3.00E-04	2	3938.5785	3938.6318	0.0600	0.0066
2	e	0	0	2	0	4102.6131	2.50E-02	3	4102.5997	4102.5908	0.0134	0.0223
2	e	0	4	1	0	4142.4010	2.50E-02	2	4142.5154	4142.4351	-0.1145	-0.0341
2	e	1	3	1	1	4451.9713	3.00E-04	1	4452.0348	4451.9761	-0.0635	-0.0048
2	e	3	0	1	0	4611.0448	3.55E-03	1	4611.0095	4611.0678	0.0353	-0.0230
2	e	2	2	1	0	4774.4269	3.03E-04	3	4774.4329	4774.4023	-0.0060	0.0246
2	e	1	0	2	0	4955.1150	2.50E-02	2	4955.1141	4955.0920	0.0009	0.0230
2	e	1	4	1	0	4971.6432	3.00E-04	2	4971.4937	4971.6401	0.1495	0.0032
2	e	0	2	2	0	5122.1901	3.00E-04	4	5122.1890	5122.1974	0.0011	-0.0073
2	e	2	3	1	1	5281.7497	5.15E-04	2	5282.0005	5281.7667	-0.2508	-0.0170
2	e	1	1	2	1	5453.6638	3.27E-04	2	5453.3391	5453.6542	0.3247	0.0096
2	e	0	3	2	1	5635.4527	3.00E-04	1	5635.8169	5635.4384	-0.3642	0.0143
2	e	2	4	1	0	5793.2067	4.02E-04	2	5793.4240	5793.1944	-0.2173	0.0123
2	e	2	0	2	0	5803.1045	4.05E-04	2	5803.0832	5803.1406	0.0213	-0.0361
2	e	1	2	2	0	5960.5335	6.00E-04	2	5960.4562	5960.5211	0.0774	0.0124
2	e	0	0	3	0	6118.7719	4.02E-04	5	6118.7674	6118.7722	0.0045	-0.0003
2	e	0	4	2	0	6155.9103	6.00E-04	2	6156.0637	6155.9206	-0.1534	-0.0103
2	e	0	1	3	1	6617.0509	6.00E-04	1	6616.9734	6617.0588	0.0775	-0.0079
2	e	3	0	2	0	6641.2987	1.00E-03	2	6641.2968	6641.2928	0.0019	0.0059
2	e	1	0	3	0	6967.3674	1.00E-03	2	6967.3938	6967.3435	-0.0264	0.0239
2	e	2	4	2	0	7799.1646	5.50E-03	1	7799.4170	7799.2370	-0.2524	-0.0724
2	e	2	0	3	0	7813.1438	4.50E-03	1	7813.1013	7813.1839	0.0425	-0.0401
2	e	1	2	3	0	7959.2371	4.50E-03	1	7959.1163	7959.1823	0.1207	0.0548
2	e	0	0	4	0	8111.9223	5.50E-03	1	8111.9526	8111.9313	-0.0303	-0.0089
2	e	1	2	4	0	9934.7273	1.00E-02	1	9934.6492	9934.7099	0.0781	0.0174
2	e	0	0	5	0	10082.0795	1.00E-02	2	10082.0639	10082.0541	0.0156	0.0254
2	e	0	4	4	0	10115.2170	1.00E-02	2	10115.2587	10115.2070	-0.0418	0.0100
2	e	0	1	5	1	10565.4743	1.00E-02	4	10565.4580	10565.4556	0.0164	0.0188
2	e	1	0	5	0	10921.1777	1.38E-02	1	10920.7595	10921.0878	0.4182	0.0900
2	e	1	4	4	0	10936.1533	1.68E-02	1	10935.8447	10936.1623	0.3086	-0.0090
2	e	2	4	4	0	11742.2300	5.00E-03	2	11742.1673	11742.4617	0.0628	-0.2317
2	e	2	0	5	0	11763.1755	1.00E-02	2	11763.1293	11763.1021	0.0462	0.0734
2	e	1	2	5	0	11887.3023	1.00E-02	1	11887.1564	11887.2733	0.1459	0.0290
2	e	0	0	6	0	12029.0977	1.00E-02	1	12028.9406	12029.0941	0.1571	0.0036
2	e	2	2	5	0	12708.1419	1.00E-02	2	12708.8436	12708.0653	-0.7018	0.0766
2	e	1	1	6	1	13333.3959	5.00E-03	2	13333.3593	13333.4164	0.0366	-0.0205
2	e	0	0	7	0	13953.0053	1.00E-02	1	13952.4538	13952.9871	0.5515	0.0182
2	f	0	1	0	1	521.6420	2.13E-06	33	521.6527	521.6428	-0.0107	-0.0008
2	f	0	2	0	2	1042.5109	1.44E-02	4	1042.5853	1042.5132	-0.0744	-0.0022
2	f	1	1	0	1	1373.6758	6.67E-04	11	1373.6894	1373.6800	-0.0136	-0.0042
2	f	0	3	0	1	1574.5903	3.18E-06	13	1574.5867	1574.5889	0.0036	0.0014
2	f	1	2	0	2	1888.1629	1.58E-02	2	1888.2514	1888.1554	-0.0885	0.0075
2	f	0	4	0	2	2100.7452	1.44E-02	3	2100.7615	2100.7556	-0.0163	-0.0103

2	f	2	1	0	1	2219.2420	3.90E-03	4	2219.2770	2219.2380	-0.0350	0.0041
2	f	1	3	0	1	2413.3405	2.85E-02	4	2413.3313	2413.3469	0.0093	-0.0063
2	f	0	1	1	1	2576.5204	6.08E-03	2	2576.5593	2576.5172	-0.0389	0.0032
2	f	0	5	0	1	2636.8177	5.00E-03	3	2636.8329	2636.7893	-0.0152	0.0283
2	f	1	1	1	1	3425.3500	1.67E-04	1	3425.1843	3425.3547	0.1657	-0.0048
2	f	0	3	1	1	3616.5625	3.53E-03	1	3616.8341	3616.5404	-0.2717	0.0221
2	f	2	3	1	1	5281.7516	4.00E-04	1	5282.0034	5281.7696	-0.2518	-0.0180
2	f	1	1	2	1	5453.6657	4.00E-04	1	5453.3405	5453.6557	0.3252	0.0100
2	f	2	1	2	1	6292.1150	6.00E-04	1	6291.8072	6292.0272	0.3077	0.0878
2	f	0	1	3	1	6617.0518	6.00E-04	2	6616.9747	6617.0601	0.0771	-0.0083
2	f	1	1	6	1	13333.3981	5.00E-03	2	13333.1270	13333.4185	0.2711	-0.0203
3	e	0	0	0	0	2.4343	7.58E-08	103	2.4278	2.4341	0.0065	0.0002
3	e	0	1	0	1	522.8594	2.13E-06	38	522.8669	522.8600	-0.0075	-0.0006
3	e	1	0	0	0	861.3939	4.34E-05	12	861.4397	861.3879	-0.0458	0.0060
3	e	0	2	0	2	1043.7323	1.35E-02	9	1043.8035	1043.7343	-0.0712	-0.0020
3	e	0	2	0	0	1049.4838	1.00E-06	21	1049.5600	1049.4841	-0.0762	-0.0003
3	e	1	1	0	1	1374.8898	1.30E-04	9	1374.8997	1374.8937	-0.0100	-0.0039
3	e	0	3	0	1	1575.8092	3.18E-06	5	1575.8023	1575.8076	0.0069	0.0016
3	e	2	0	0	0	1713.3959	1.27E-04	5	1713.4304	1713.3984	-0.0345	-0.0025
3	e	1	2	0	2	1889.3812	1.45E-02	4	1889.4661	1889.3735	-0.0849	0.0077
3	e	1	2	0	0	1894.6661	1.34E-04	3	1894.5967	1894.6804	0.0694	-0.0143
3	e	0	0	1	0	2064.6206	1.58E-06	4	2064.6511	2064.6193	-0.0305	0.0012
3	e	0	4	0	2	2101.9695	1.35E-02	5	2101.9825	2101.9796	-0.0130	-0.0101
3	e	0	4	0	0	2107.2743	1.00E-03	2	2107.1593	2107.3009	0.1150	-0.0266
3	e	2	1	0	1	2220.4534	3.90E-03	1	2220.4836	2220.4481	-0.0301	0.0053
3	e	1	3	0	1	2414.5589	2.00E-04	3	2414.5433	2414.5622	0.0156	-0.0033
3	e	3	0	0	0	2558.4030	4.00E-03	2	2558.3258	2558.4157	0.0772	-0.0128
3	e	0	1	1	1	2577.7311	4.30E-03	3	2577.7662	2577.7273	-0.0351	0.0038
3	e	0	5	0	1	2638.0385	5.00E-03	3	2638.0494	2638.0088	-0.0109	0.0296
3	e	2	2	0	0	2733.8281	4.00E-03	2	2733.7429	2733.8361	0.0852	-0.0079
3	e	1	0	1	0	2920.5184	4.00E-03	1	2920.5618	2920.5382	-0.0434	-0.0198
3	e	1	4	0	2	2934.6561	1.57E-02	1	2934.8311	2934.6098	-0.1750	0.0464
3	e	1	4	0	0	2939.5881	4.00E-03	1	2939.5017	2939.5410	0.0865	0.0471
3	e	0	2	1	2	3091.3335	1.42E-02	1	3091.6698	3091.3856	-0.3364	-0.0521
3	e	0	2	1	0	3097.9821	4.00E-03	2	3098.0872	3097.9639	-0.1051	0.0182
3	e	2	0	1	0	3770.9226	1.00E-01	2	3770.9872	3770.8985	-0.0646	0.0241
3	e	1	2	1	0	3939.8494	3.00E-04	3	3939.7855	3939.8426	0.0639	0.0069
3	e	0	0	2	0	4103.7611	2.50E-02	2	4103.7993	4103.7934	-0.0381	-0.0323
3	e	0	4	1	0	4143.6677	2.50E-02	2	4143.7287	4143.6518	-0.0610	0.0159
3	e	1	3	1	1	4453.1834	3.00E-04	1	4453.2424	4453.1875	-0.0590	-0.0041
3	e	0	1	2	1	4609.5174	6.88E-04	2	4609.4927	4609.5195	0.0247	-0.0021
3	e	2	2	1	0	4775.6171	2.50E-02	1	4775.6369	4775.6103	-0.0197	0.0068
3	e	1	0	2	0	4956.2795	4.00E-04	4	4956.3105	4956.2920	-0.0310	-0.0125
3	e	1	4	1	0	4972.8565	3.03E-04	3	4972.7034	4972.8534	0.1531	0.0031
3	e	0	2	2	0	5123.3969	4.00E-04	4	5123.3921	5123.4042	0.0048	-0.0073
3	e	2	3	1	1	5282.9592	1.10E-03	2	5283.2050	5282.9752	-0.2458	-0.0160
3	e	4	0	1	0	5447.3513	4.00E-04	1	5447.2018	5447.3491	0.1495	0.0022
3	e	1	1	2	1	5454.8657	4.00E-04	1	5454.5368	5454.8557	0.3290	0.0100
3	e	0	3	2	1	5636.6504	4.00E-04	1	5637.0205	5636.6459	-0.3701	0.0045
3	e	2	4	1	0	5794.4171	4.02E-04	2	5794.6295	5794.4044	-0.2124	0.0127
3	e	2	0	2	0	5804.3015	4.02E-04	3	5804.2770	5804.3378	0.0245	-0.0363
3	e	1	2	2	2	5954.6753	1.35E-02	1	5954.7158	5954.7839	-0.0404	-0.1086
3	e	1	2	2	0	5961.7380	6.00E-04	2	5961.6563	5961.7253	0.0817	0.0127
3	e	0	0	3	0	6119.9674	6.00E-04	4	6119.9599	6119.9677	0.0075	-0.0003
3	e	0	4	2	0	6157.1204	6.00E-04	2	6157.2697	6157.1305	-0.1493	-0.0100
3	e	5	0	1	0	6275.4995	4.50E-03	1	6275.2302	6275.4362	0.2694	0.0633
3	e	2	1	2	1	6293.3135	4.21E-04	2	6293.0005	6293.2249	0.3130	0.0886

3	e	0	1	3	1	6618.2491	6.00E-04	1	6618.1673	6618.2560	0.0817	-0.0069
3	e	3	0	2	0	6642.4887	1.00E-03	3	6642.4852	6642.4851	0.0035	0.0036
3	e	1	0	3	0	6968.5616	1.00E-03	4	6968.5842	6968.5377	-0.0225	0.0240
3	e	0	2	3	0	7125.7772	6.00E-04	2	7125.6010	7125.8371	0.1763	-0.0598
3	e	4	0	2	0	7474.5566	5.50E-03	1	7474.6657	7474.4836	-0.1091	0.0730
3	e	2	1	3	1	8294.2201	5.50E-03	1	8294.0097	8294.0985	0.2104	0.1216
3	e	1	3	3	1	8460.7769	7.50E-03	1	8460.7733	8460.8114	0.0035	-0.0345
3	e	1	0	4	0	8957.2501	1.00E-02	1	8957.1634	8957.1735	0.0867	0.0766
3	e	0	0	5	0	10083.2646	1.00E-02	2	10083.2431	10083.2359	0.0216	0.0287
3	e	0	4	4	0	10116.4101	1.00E-02	2	10116.4502	10116.4035	-0.0400	0.0066
3	e	0	1	5	1	10566.6540	1.00E-02	4	10566.6379	10566.6387	0.0160	0.0153
3	e	1	0	5	0	10922.3761	1.00E-02	2	10921.9404	10922.2720	0.4357	0.1041
3	e	1	4	4	0	10937.3331	1.00E-02	1	10937.0290	10937.3507	0.3041	-0.0176
3	e	2	4	4	0	11743.4233	5.62E-03	2	11743.3550	11743.6535	0.0683	-0.2302
3	e	2	0	5	0	11764.3379	1.00E-02	2	11764.3019	11764.2782	0.0360	0.0597
3	e	1	2	5	0	11888.4921	1.00E-02	1	11888.3367	11888.4665	0.1554	0.0256
3	e	0	0	6	0	12030.2776	1.00E-02	2	12030.1138	12030.2693	0.1638	0.0083
3	e	1	1	6	1	13334.5743	5.00E-03	2	13334.5332	13334.5919	0.0411	-0.0176
3	e	0	0	7	0	13954.1731	1.00E-02	1	13953.6231	13954.1563	0.5500	0.0168
3	f	0	1	0	1	522.8619	2.13E-06	32	522.8694	522.8625	-0.0075	-0.0006
3	f	0	2	0	2	1043.7323	1.35E-02	8	1043.8035	1043.7343	-0.0712	-0.0020
3	f	1	1	0	1	1374.8924	6.67E-04	6	1374.9025	1374.8964	-0.0100	-0.0040
3	f	0	3	0	1	1575.8141	3.18E-06	4	1575.8072	1575.8125	0.0069	0.0016
3	f	1	2	0	2	1889.3812	1.45E-02	3	1889.4661	1889.3735	-0.0849	0.0077
3	f	0	4	0	2	2101.9695	1.35E-02	5	2101.9825	2101.9796	-0.0130	-0.0101
3	f	2	1	0	1	2220.4564	3.90E-03	1	2220.4865	2220.4511	-0.0301	0.0054
3	f	1	3	0	1	2414.5642	2.00E-04	3	2414.5485	2414.5675	0.0157	-0.0033
3	f	0	1	1	1	2577.7331	4.30E-03	3	2577.7687	2577.7299	-0.0356	0.0033
3	f	0	5	0	1	2638.0447	5.00E-03	3	2638.0566	2638.0161	-0.0120	0.0286
3	f	1	2	1	2	3933.7207	1.49E-02	1	3933.8093	3933.7649	-0.0886	-0.0442
3	f	2	3	1	1	5282.9626	4.00E-04	1	5283.2106	5282.9810	-0.2480	-0.0184
3	f	1	1	2	1	5454.8685	4.00E-04	1	5454.5396	5454.8587	0.3289	0.0098
3	f	0	1	3	1	6618.2508	6.00E-04	2	6618.1699	6618.2587	0.0809	-0.0079
3	f	3	1	2	1	7129.2848	5.50E-03	1	7129.7216	7129.6376	-0.4368	-0.3529
3	f	1	1	6	1	13334.5782	5.00E-03	2	13334.5381	13334.5960	0.0402	-0.0178
4	e	0	0	0	0	4.0571	9.62E-08	119	4.0463	4.0568	0.0108	0.0003
4	e	0	1	0	1	524.4842	2.13E-06	40	524.4874	524.4847	-0.0033	-0.0005
4	e	1	0	0	0	863.0119	4.34E-05	19	863.0530	863.0057	-0.0411	0.0062
4	e	0	2	0	2	1045.3608	1.25E-02	10	1045.4277	1045.3626	-0.0670	-0.0018
4	e	0	2	0	0	1051.1116	1.00E-06	22	1051.1835	1051.1116	-0.0718	0.0000
4	e	1	1	0	1	1376.5101	1.30E-04	8	1376.5154	1376.5138	-0.0053	-0.0037
4	e	0	3	0	1	1577.4376	2.47E-06	5	1577.4263	1577.4357	0.0113	0.0019
4	e	2	0	0	0	1715.0090	1.27E-04	6	1715.0385	1715.0113	-0.0295	-0.0023
4	e	1	2	0	2	1891.0056	1.30E-02	4	1891.0857	1890.9976	-0.0802	0.0080
4	e	1	2	0	0	1896.2897	1.34E-04	4	1896.2155	1896.3037	0.0742	-0.0140
4	e	0	0	1	0	2066.2337	1.12E-06	7	2066.2600	2066.2324	-0.0263	0.0013
4	e	0	4	0	2	2103.6034	1.25E-02	4	2103.6106	2103.6117	-0.0071	-0.0083
4	e	0	4	0	0	2108.9060	1.00E-03	4	2108.7867	2108.9323	0.1193	-0.0262
4	e	2	1	0	1	2222.0684	3.90E-03	2	2222.0942	2222.0636	-0.0258	0.0048
4	e	1	3	0	1	2416.1832	2.00E-04	4	2416.1628	2416.1862	0.0204	-0.0030
4	e	3	0	0	0	2560.0120	4.00E-03	4	2559.9285	2560.0236	0.0835	-0.0116
4	e	0	1	1	1	2579.3462	6.08E-03	2	2579.3771	2579.3425	-0.0310	0.0037
4	e	0	5	0	1	2639.6678	5.00E-03	2	2639.6762	2639.6396	-0.0084	0.0282
4	e	2	2	0	0	2735.4474	4.00E-03	2	2735.3571	2735.4550	0.0904	-0.0076
4	e	1	0	1	0	2922.1293	4.00E-03	2	2922.1658	2922.1470	-0.0366	-0.0177
4	e	0	2	1	0	3099.6003	4.00E-03	3	3099.7010	3099.5822	-0.1007	0.0181
4	e	0	6	0	0	3174.7275	8.50E-03	1	3175.2327	3174.7747	-0.5052	-0.0472

4	e	2	3	0	1	3249.3111	3.57E-03	1	3249.4752	3249.3048	-0.1642	0.0063
4	e	2	0	1	0	3772.5527	1.00E-01	1	3772.5896	3772.5050	-0.0370	0.0476
4	e	1	2	1	0	3941.4641	3.00E-04	3	3941.3949	3941.4570	0.0691	0.0071
4	e	1	6	0	0	3994.1844	3.00E-04	1	3995.4427	3994.1907	-1.2584	-0.0063
4	e	0	0	2	0	4105.3952	3.00E-04	3	4105.3986	4105.3970	-0.0035	-0.0018
4	e	0	4	1	0	4145.3180	2.50E-02	2	4145.3464	4145.2742	-0.0284	0.0438
4	e	1	3	1	1	4454.7987	3.00E-04	2	4454.8525	4454.8027	-0.0538	-0.0040
4	e	0	1	2	1	4611.1229	9.13E-04	2	4611.0941	4611.1252	0.0289	-0.0023
4	e	3	0	1	0	4613.8428	3.55E-03	1	4613.7982	4613.8656	0.0446	-0.0227
4	e	2	2	1	0	4777.2462	3.03E-04	3	4777.2421	4777.2209	0.0041	0.0253
4	e	1	0	2	0	4957.8796	4.00E-04	4	4957.9056	4957.8921	-0.0261	-0.0125
4	e	1	4	1	0	4974.4749	3.03E-04	3	4974.3164	4974.4711	0.1585	0.0038
4	e	0	2	2	2	5117.4123	1.25E-02	3	5117.8363	5117.5517	-0.4241	-0.1395
4	e	0	2	2	0	5125.0062	4.00E-04	4	5124.9963	5125.0132	0.0099	-0.0070
4	e	2	3	1	1	5284.5686	1.59E-03	2	5284.8109	5284.5866	-0.2423	-0.0180
4	e	3	2	1	0	5606.4886	6.00E-04	1	5606.6976	5606.3668	-0.2090	0.1219
4	e	2	0	2	0	5805.8977	4.02E-04	3	5805.8688	5805.9341	0.0290	-0.0364
4	e	1	2	2	0	5963.3441	4.00E-04	3	5963.2564	5963.3309	0.0877	0.0133
4	e	0	0	3	0	6121.5613	6.00E-04	4	6121.5500	6121.5617	0.0113	-0.0005
4	e	0	4	2	0	6158.7338	6.00E-04	3	6158.8778	6158.7437	-0.1440	-0.0099
4	e	4	6	0	0	6422.7098	4.50E-03	1	6425.4837	6422.7401	-2.7739	-0.0303
4	e	4	2	1	0	6433.0962	4.50E-03	1	6436.2296	6433.4455	-3.1334	-0.3493
4	e	3	4	1	0	6615.1292	4.50E-03	1	6616.1383	6615.1871	-1.0091	-0.0579
4	e	0	1	3	1	6619.8435	6.00E-04	1	6619.7592	6619.8523	0.0843	-0.0088
4	e	3	0	2	0	6644.0787	1.00E-03	3	6644.0696	6644.0748	0.0090	0.0038
4	e	5	1	1	1	6759.5914	6.50E-03	1	6759.9026	6759.5320	-0.3111	0.0594
4	e	4	3	1	1	6925.9228	8.50E-03	1	6927.7088	6925.9015	-1.7860	0.0213
4	e	1	0	3	0	6970.1550	1.00E-01	2	6970.1713	6970.1299	-0.0164	0.0251
4	e	0	2	3	0	7127.3771	1.00E-03	1	7127.1957	7127.4369	0.1814	-0.0598
4	e	5	2	1	0	7249.7419	8.50E-03	1	7252.4494	7249.9206	-2.7075	-0.1787
4	e	1	2	3	0	7962.0364	4.50E-03	1	7961.9007	7961.9767	0.1357	0.0597
4	e	0	0	4	0	8114.6948	4.50E-03	1	8114.7192	8114.7045	-0.0244	-0.0097
4	e	2	1	3	1	8295.8146	5.50E-03	1	8295.5947	8295.6901	0.2199	0.1245
4	e	1	3	3	1	8462.3782	7.50E-03	1	8462.3653	8462.4091	0.0129	-0.0309
4	e	1	0	4	0	8958.8407	1.00E-02	1	8958.7438	8958.7589	0.0968	0.0818
4	e	1	2	4	0	9937.5027	1.00E-02	1	9937.4182	9937.4889	0.0845	0.0137
4	e	0	0	5	0	10084.8420	1.00E-02	2	10084.8152	10084.8116	0.0267	0.0303
4	e	0	4	4	0	10118.0070	1.00E-02	2	10118.0387	10117.9988	-0.0317	0.0082
4	e	0	1	5	1	10568.2283	1.00E-02	4	10568.2112	10568.2161	0.0170	0.0121
4	e	1	0	5	0	10923.9523	1.00E-02	1	10923.5150	10923.8510	0.4373	0.1013
4	e	1	4	4	0	10938.9077	1.00E-02	1	10938.6082	10938.9352	0.2995	-0.0276
4	e	2	4	4	0	11745.0069	9.20E-03	2	11744.9385	11745.2426	0.0683	-0.2358
4	e	2	0	5	0	11765.9045	1.00E-02	2	11765.8654	11765.8464	0.0391	0.0581
4	e	1	2	5	0	11890.0727	1.00E-02	1	11889.9105	11890.0626	0.1621	0.0101
4	e	0	0	6	0	12031.8360	1.02E-02	2	12031.6780	12031.8363	0.1579	-0.0003
4	e	1	1	6	1	13336.1514	5.00E-03	1	13336.0987	13336.1592	0.0527	-0.0079
4	e	0	0	7	0	13955.7077	2.25E-02	1	13955.1823	13955.7153	0.5254	-0.0076
4	f	0	1	0	1	524.4884	2.13E-06	29	524.4917	524.4889	-0.0032	-0.0005
4	f	0	2	0	2	1045.3608	1.25E-02	9	1045.4277	1045.3626	-0.0670	-0.0018
4	f	1	1	0	1	1376.5146	6.67E-04	8	1376.5199	1376.5184	-0.0053	-0.0038
4	f	0	3	0	1	1577.4459	2.48E-06	5	1577.4345	1577.4440	0.0113	0.0019
4	f	1	2	0	2	1891.0056	1.30E-02	5	1891.0857	1890.9976	-0.0802	0.0080
4	f	0	4	0	2	2103.6034	1.25E-02	4	2103.6106	2103.6117	-0.0071	-0.0083
4	f	2	1	0	1	2222.0733	3.90E-03	2	2222.0991	2222.0685	-0.0258	0.0048
4	f	1	3	0	1	2416.1920	2.00E-04	5	2416.1715	2416.1949	0.0205	-0.0030
4	f	0	1	1	1	2579.3498	6.08E-03	3	2579.3814	2579.3468	-0.0315	0.0030
4	f	0	5	0	1	2639.6811	5.00E-03	3	2639.6883	2639.6518	-0.0072	0.0293

4	f	2	3	1	1	5284.5732	2.71E-03	2	5284.8203	5284.5962	-0.2472	-0.0231
4	f	1	3	2	1	6470.1722	6.00E-04	1	6470.2281	6470.1929	-0.0559	-0.0207
4	f	5	1	1	1	6759.5978	5.50E-03	1	6759.9084	6759.5380	-0.3106	0.0598
4	f	2	1	3	1	8295.8209	5.50E-03	1	8295.6009	8295.6971	0.2200	0.1239
4	f	1	1	6	1	13336.1539	5.00E-03	1	13335.8777	13336.1661	0.2762	-0.0122
5	e	0	0	0	0	6.0857	2.36E-07	130	6.0695	6.0852	0.0162	0.0005
5	e	0	1	0	1	526.5152	1.60E-06	39	526.5132	526.5155	0.0020	-0.0003
5	e	1	0	0	0	865.0344	4.34E-05	17	865.0697	865.0281	-0.0352	0.0064
5	e	0	2	0	2	1047.3963	1.14E-02	6	1047.4580	1047.3979	-0.0617	-0.0015
5	e	0	2	0	0	1053.1464	1.01E-06	19	1053.2128	1053.1461	-0.0664	0.0004
5	e	1	1	0	1	1378.5355	1.30E-04	7	1378.5349	1378.5390	0.0006	-0.0035
5	e	0	3	0	1	1579.4732	2.48E-06	5	1579.4564	1579.4708	0.0167	0.0023
5	e	2	0	0	0	1717.0253	1.23E-04	4	1717.0485	1717.0274	-0.0232	-0.0021
5	e	1	2	0	2	1893.0360	1.45E-02	3	1893.1102	1893.0276	-0.0742	0.0084
5	e	1	2	0	0	1898.3192	1.34E-04	4	1898.2391	1898.3328	0.0802	-0.0136
5	e	0	0	1	0	2068.2501	8.98E-07	8	2068.2711	2068.2488	-0.0210	0.0013
5	e	0	4	0	2	2105.6439	1.14E-02	6	2105.6455	2105.6518	-0.0016	-0.0079
5	e	0	4	0	0	2110.9465	8.00E-04	5	2110.8209	2110.9715	0.1256	-0.0250
5	e	2	1	0	1	2224.0881	5.52E-03	1	2224.1075	2224.0830	-0.0194	0.0051
5	e	1	3	0	1	2418.2136	2.00E-04	6	2418.1872	2418.2162	0.0264	-0.0026
5	e	3	0	0	0	2562.0216	4.00E-03	4	2561.9318	2562.0334	0.0897	-0.0118
5	e	0	1	1	1	2581.3652	4.30E-03	4	2581.3908	2581.3615	-0.0256	0.0037
5	e	0	5	0	1	2641.7128	5.00E-03	3	2641.7097	2641.6782	0.0031	0.0346
5	e	2	2	0	0	2737.4715	3.53E-03	3	2737.3747	2737.4786	0.0968	-0.0071
5	e	1	0	1	0	2924.1403	5.66E-03	2	2924.1709	2924.1579	-0.0306	-0.0176
5	e	1	4	0	2	2938.3214	1.14E-02	1	2938.4845	2938.2732	-0.1631	0.0482
5	e	1	4	0	0	2943.2499	4.00E-03	1	2943.1530	2943.2021	0.0969	0.0478
5	e	0	2	1	0	3101.6236	4.00E-03	2	3101.7182	3101.6051	-0.0945	0.0186
5	e	2	0	1	0	3774.5485	1.00E-01	2	3774.5927	3774.5132	-0.0441	0.0353
5	e	1	2	1	0	3943.4824	3.00E-04	3	3943.4067	3943.4749	0.0757	0.0075
5	e	1	6	0	0	3996.2231	3.00E-04	1	3997.4756	3996.2290	-1.2525	-0.0059
5	e	0	0	2	0	4107.3995	3.00E-04	5	4107.3979	4107.4014	0.0016	-0.0019
5	e	0	4	1	0	4147.3605	2.61E-02	2	4147.3685	4147.3021	-0.0080	0.0584
5	e	1	3	1	1	4456.8177	3.00E-04	2	4456.8651	4456.8217	-0.0475	-0.0040
5	e	0	5	1	1	4672.1759	3.00E-04	1	4672.3476	4672.1785	-0.1717	-0.0026
5	e	2	2	1	0	4779.2597	3.03E-04	3	4779.2487	4779.2341	0.0110	0.0256
5	e	1	0	2	0	4959.8796	3.03E-04	5	4959.8996	4959.8921	-0.0200	-0.0125
5	e	1	4	1	0	4976.4969	3.03E-04	2	4976.3326	4976.4933	0.1643	0.0036
5	e	0	2	2	0	5127.0176	4.00E-04	5	5127.0016	5127.0245	0.0161	-0.0068
5	e	0	6	1	0	5202.1117	3.00E-04	2	5202.5116	5202.2555	-0.3999	-0.1439
5	e	2	3	1	1	5286.5891	1.13E-03	2	5286.8183	5286.6008	-0.2293	-0.0118
5	e	4	0	1	0	5450.9374	4.00E-04	2	5450.7752	5450.9349	0.1622	0.0025
5	e	1	1	2	1	5458.4705	4.00E-04	1	5458.1297	5458.4602	0.3408	0.0103
5	e	3	2	1	0	5608.4999	6.00E-04	1	5608.7005	5608.3770	-0.2006	0.1229
5	e	0	3	2	1	5640.2705	3.00E-04	1	5640.6315	5640.2682	-0.3610	0.0023
5	e	2	4	1	0	5798.0474	6.00E-04	2	5798.2462	5798.0342	-0.1988	0.0132
5	e	2	0	2	0	5807.8931	4.02E-04	4	5807.8584	5807.9295	0.0347	-0.0364
5	e	1	2	2	0	5965.3515	4.00E-04	4	5965.2566	5965.3378	0.0949	0.0137
5	e	0	0	3	0	6123.5537	4.02E-04	5	6123.5375	6123.5543	0.0162	-0.0006
5	e	0	4	2	0	6160.7505	6.00E-04	4	6160.8879	6160.7602	-0.1374	-0.0097
5	e	5	0	1	0	6279.0751	4.50E-03	1	6278.7916	6279.0105	0.2835	0.0646
5	e	2	1	2	1	6296.9125	6.00E-04	1	6296.5854	6296.8235	0.3272	0.0891
5	e	1	3	2	1	6472.1720	6.00E-04	2	6472.2203	6472.1917	-0.0483	-0.0197
5	e	0	1	3	1	6621.8403	6.00E-04	1	6621.7490	6621.8476	0.0912	-0.0073
5	e	3	0	2	0	6646.0655	1.00E-03	3	6646.0502	6646.0620	0.0153	0.0035
5	e	2	2	2	0	6797.5495	1.00E-03	1	6797.7158	6797.4976	-0.1662	0.0519
5	e	1	0	3	0	6972.1446	1.00E-03	4	6972.1553	6972.1201	-0.0107	0.0245

5	e	0	2	3	0	7129.3772	6.00E-04	2	7129.1891	7129.4366	0.1881	-0.0594
5	e	3	1	2	1	7132.8738	5.50E-03	1	7133.2985	7133.2243	-0.4247	-0.3506
5	e	4	0	2	0	7478.1260	4.50E-03	1	7478.7807	7478.0491	-0.6546	0.0769
5	e	2	0	3	0	7817.9034	4.50E-03	1	7817.8473	7817.9439	0.0561	-0.0405
5	e	1	2	3	0	7964.0370	4.50E-03	1	7963.8896	7963.9727	0.1475	0.0644
5	e	1	2	4	0	9939.4809	1.00E-02	1	9939.3960	9939.4740	0.0849	0.0069
5	e	0	0	5	0	10086.8115	1.00E-02	2	10086.7805	10086.7813	0.0310	0.0302
5	e	0	4	4	0	10119.9975	1.00E-02	2	10120.0244	10119.9929	-0.0269	0.0046
5	e	0	1	5	1	10570.2043	1.00E-02	4	10570.1778	10570.1880	0.0265	0.0163
5	e	1	0	5	0	10925.9237	1.00E-02	2	10925.4831	10925.8246	0.4405	0.0990
5	e	1	4	4	0	10940.8885	1.00E-02	2	10940.5821	10940.9160	0.3064	-0.0275
5	e	2	4	4	0	11747.0061	5.00E-03	1	11746.9180	11747.2290	0.0881	-0.2228
5	e	2	0	5	0	11767.8610	1.00E-02	2	11767.8197	11767.8066	0.0413	0.0544
5	e	1	2	5	0	11892.0409	1.00E-02	1	11891.8778	11892.0690	0.1631	-0.0281
5	e	0	0	6	0	12033.8015	1.00E-02	2	12033.6333	12033.7949	0.1682	0.0066
5	e	1	3	5	1	12380.0854	1.18E-02	1	12379.3812	12379.9710	0.7042	0.1144
5	e	2	2	5	0	12712.8716	1.00E-02	2	12713.5604	12712.7972	-0.6889	0.0744
5	e	1	0	6	0	12867.9362	1.35E-02	1	12866.7916	12867.8604	1.1446	0.0758
5	e	1	4	5	0	12884.6111	1.35E-02	1	12884.2925	12884.5133	0.3186	0.0978
5	e	0	2	6	0	12999.4107	1.26E-02	2	12998.1693	12999.5028	1.2414	-0.0922
5	e	1	1	6	1	13338.1062	5.00E-03	3	13338.0559	13338.1184	0.0503	-0.0122
5	e	0	0	7	0	13957.6744	1.00E-02	2	13957.1312	13957.6640	0.5432	0.0104
5	f	0	1	0	1	526.5216	1.61E-06	25	526.5195	526.5219	0.0021	-0.0003
5	f	0	2	0	2	1047.3963	1.14E-02	5	1047.4580	1047.3979	-0.0617	-0.0015
5	f	1	1	0	1	1378.5423	6.67E-04	6	1378.5417	1378.5458	0.0006	-0.0035
5	f	0	3	0	1	1579.4855	2.49E-06	5	1579.4687	1579.4833	0.0168	0.0023
5	f	1	2	0	2	1893.0360	1.45E-02	3	1893.1103	1893.0277	-0.0742	0.0084
5	f	0	4	0	2	2105.6439	1.14E-02	6	2105.6456	2105.6518	-0.0016	-0.0079
5	f	2	1	0	1	2224.0954	5.52E-03	1	2224.1148	2224.0903	-0.0194	0.0051
5	f	1	3	0	1	2418.2267	2.00E-04	7	2418.2002	2418.2293	0.0265	-0.0026
5	f	0	1	1	1	2581.3710	4.30E-03	4	2581.3971	2581.3680	-0.0261	0.0031
5	f	0	5	0	1	2641.7200	5.00E-03	4	2641.7278	2641.6964	-0.0078	0.0236
5	f	1	4	0	2	2938.3214	1.14E-02	1	2938.4845	2938.2732	-0.1631	0.0482
5	f	0	1	2	1	4613.1369	8.70E-03	1	4613.1022	4613.1390	0.0347	-0.0021
5	f	2	3	1	1	5286.5962	8.20E-04	2	5286.8325	5286.6153	-0.2362	-0.0190
5	f	3	1	2	1	7132.8829	5.50E-03	1	7133.3098	7133.2349	-0.4269	-0.3520
5	f	1	3	5	1	12380.0943	1.18E-02	1	12379.3959	12379.9868	0.6984	0.1075
5	f	1	1	6	1	13338.1113	5.00E-03	3	13338.0682	13338.1287	0.0431	-0.0174
6	e	0	0	0	0	8.5199	3.19E-07	116	8.4973	8.5192	0.0226	0.0007
6	e	0	1	0	1	528.9524	1.61E-06	43	528.9440	528.9525	0.0084	-0.0001
6	e	1	0	0	0	867.4614	4.34E-05	16	867.4896	867.4548	-0.0282	0.0066
6	e	0	2	0	2	1049.8413	1.02E-02	8	1049.8943	1049.8402	-0.0530	0.0012
6	e	0	2	0	0	1055.5882	1.04E-06	22	1055.6480	1055.5873	-0.0598	0.0008
6	e	1	1	0	1	1380.9660	1.30E-04	4	1380.9583	1380.9692	0.0077	-0.0032
6	e	0	3	0	1	1581.9158	2.47E-06	7	1581.8925	1581.9130	0.0233	0.0028
6	e	2	0	0	0	1719.4449	1.23E-04	6	1719.4606	1719.4467	-0.0156	-0.0018
6	e	1	2	0	2	1895.4726	1.58E-02	1	1895.5396	1895.4637	-0.0671	0.0089
6	e	1	2	0	0	1900.7546	1.34E-04	2	1900.6673	1900.7677	0.0873	-0.0131
6	e	0	0	1	0	2070.6698	6.39E-07	8	2070.6845	2070.6685	-0.0147	0.0013
6	e	0	4	0	2	2108.0925	1.25E-02	1	2108.0875	2108.0999	0.0050	-0.0074
6	e	0	4	0	0	2113.3946	8.00E-04	3	2113.2619	2113.4186	0.1327	-0.0240
6	e	2	1	0	1	2226.5120	3.90E-03	2	2226.5234	2226.5062	-0.0114	0.0059
6	e	1	3	0	1	2420.6500	2.00E-04	3	2420.6164	2420.6521	0.0336	-0.0021
6	e	3	0	0	0	2564.4338	4.00E-03	3	2564.3359	2564.4451	0.0979	-0.0113
6	e	0	1	1	1	2583.7881	4.30E-03	2	2583.8071	2583.7843	-0.0191	0.0038
6	e	0	5	0	1	2644.1595	7.07E-03	1	2644.1498	2644.1244	0.0097	0.0351
6	e	2	2	0	0	2739.9005	4.00E-03	2	2739.7960	2739.9070	0.1045	-0.0065

6	e	1	0	1	0	2926.5535	4.00E-03	4	2926.5769	2926.5709	-0.0234	-0.0175
6	e	0	2	1	0	3104.0513	4.00E-03	3	3104.1388	3104.0325	-0.0875	0.0189
6	e	2	0	1	0	3776.9330	3.55E-03	2	3776.9963	3776.9231	-0.0634	0.0099
6	e	1	2	1	0	3945.9044	3.00E-04	4	3945.8208	3945.8965	0.0836	0.0079
6	e	0	0	2	0	4109.8047	3.00E-04	5	4109.7969	4109.8066	0.0077	-0.0019
6	e	0	4	1	0	4149.7309	3.00E-04	2	4149.7951	4149.7356	-0.0642	-0.0048
6	e	1	3	1	1	4459.2409	3.00E-04	1	4459.2803	4459.2445	-0.0394	-0.0036
6	e	0	5	1	1	4674.6093	3.00E-04	1	4674.7735	4674.6114	-0.1642	-0.0021
6	e	2	2	1	0	4781.6763	3.03E-04	3	4781.6565	4781.6500	0.0197	0.0262
6	e	1	0	2	0	4962.2797	4.00E-04	4	4962.2923	4962.2922	-0.0126	-0.0124
6	e	1	4	1	0	4978.9240	3.03E-04	2	4978.7520	4978.9199	0.1720	0.0042
6	e	0	2	2	2	5121.8412	1.02E-02	1	5122.2498	5121.9780	-0.4086	-0.1368
6	e	0	2	2	0	5129.4314	4.00E-04	4	5129.4078	5129.4380	0.0236	-0.0066
6	e	0	6	1	0	5204.5516	4.00E-04	1	5204.9434	5204.6945	-0.3918	-0.1428
6	e	2	3	1	1	5289.0025	8.13E-04	2	5289.2272	5289.0179	-0.2248	-0.0154
6	e	4	0	1	0	5453.3283	4.00E-04	1	5453.1574	5453.3254	0.1708	0.0029
6	e	1	1	2	1	5460.8757	3.52E-04	1	5460.5250	5460.8632	0.3508	0.0125
6	e	3	2	1	0	5610.9119	6.00E-04	1	5611.1040	5610.7893	-0.1921	0.1226
6	e	0	3	2	1	5642.6887	4.00E-04	1	5643.0388	5642.6831	-0.3501	0.0056
6	e	2	4	1	0	5800.4680	6.00E-04	2	5800.6573	5800.4541	-0.1893	0.0139
6	e	2	0	2	0	5810.2878	4.02E-04	4	5810.2461	5810.3241	0.0417	-0.0363
6	e	1	2	2	2	5960.7003	1.02E-02	1	5960.7186	5960.8071	-0.0183	-0.1068
6	e	1	2	2	0	5967.7595	6.00E-04	4	5967.6568	5967.7461	0.1027	0.0134
6	e	0	0	3	0	6125.9446	6.00E-04	4	6125.9225	6125.9453	0.0221	-0.0007
6	e	0	4	2	0	6163.1706	6.00E-04	3	6163.3000	6163.1800	-0.1293	-0.0093
6	e	2	1	2	1	6299.3118	4.21E-04	2	6298.9752	6299.2225	0.3366	0.0893
6	e	3	4	1	0	6619.5605	4.50E-03	1	6620.5546	6619.6192	-0.9941	-0.0587
6	e	0	1	3	1	6624.2354	6.00E-04	1	6624.1368	6624.2420	0.0986	-0.0066
6	e	3	0	2	0	6648.4516	1.00E-03	2	6648.4268	6648.4465	0.0248	0.0050
6	e	5	1	1	1	6763.9705	6.50E-03	1	6764.2653	6763.9109	-0.2947	0.0597
6	e	2	2	2	0	6799.9530	1.00E-03	1	6800.1105	6799.9012	-0.1575	0.0518
6	e	1	0	3	0	6974.5326	1.00E-03	4	6974.5360	6974.5083	-0.0034	0.0242
6	e	6	0	1	0	7102.5402	6.50E-03	1	7102.1411	7102.3741	0.3990	0.1661
6	e	0	2	3	0	7131.7771	1.00E-03	2	7131.5812	7131.8363	0.1959	-0.0592
6	e	5	2	1	0	7254.1391	6.50E-03	1	7256.8257	7254.3119	-2.6866	-0.1728
6	e	4	0	2	0	7480.5019	4.50E-03	1	7480.5877	7480.4261	-0.0859	0.0758
6	e	1	2	3	0	7966.4365	4.50E-03	1	7966.2762	7966.3679	0.1603	0.0686
6	e	0	0	4	0	8119.0542	4.50E-03	1	8119.0666	8119.0623	-0.0124	-0.0081
6	e	1	0	4	0	8963.1913	1.00E-02	2	8963.0899	8963.1184	0.1014	0.0728
6	e	0	0	5	0	10089.1743	1.00E-02	2	10089.1388	10089.1448	0.0355	0.0295
6	e	0	4	4	0	10122.3923	1.00E-02	2	10122.4072	10122.3859	-0.0149	0.0064
6	e	0	1	5	1	10572.5678	1.00E-02	2	10572.5377	10572.5541	0.0301	0.0137
6	e	1	0	5	0	10928.3034	1.00E-02	2	10927.8449	10928.1930	0.4585	0.1104
6	e	1	4	4	0	10943.2714	1.00E-02	3	10942.9509	10943.2929	0.3205	-0.0215
6	e	0	2	5	0	11067.7200	1.00E-02	2	11067.0142	11067.8518	0.7058	-0.1318
6	e	2	4	4	0	11749.3821	8.50E-03	3	11749.2933	11749.6126	0.0887	-0.2305
6	e	2	0	5	0	11770.2157	1.00E-02	3	11770.1649	11770.1589	0.0508	0.0569
6	e	1	2	5	0	11894.4102	1.00E-02	2	11894.2384	11894.4932	0.1717	-0.0830
6	e	0	0	6	0	12036.1548	8.50E-03	1	12035.9796	12036.1453	0.1752	0.0095
6	e	1	3	5	1	12382.4497	8.40E-03	2	12381.7435	12382.3417	0.7062	0.1080
6	e	0	1	6	1	12512.3153	8.50E-03	1	12512.3453	12512.2319	-0.0300	0.0834
6	e	2	2	5	0	12715.2487	1.00E-02	2	12715.9188	12715.1631	-0.6701	0.0856
6	e	1	1	6	1	13340.4708	5.90E-03	1	13340.4050	13340.4694	0.0658	0.0014
6	e	0	0	7	0	13960.0438	2.27E-02	1	13959.4703	13960.0024	0.5735	0.0415
6	f	0	1	0	1	528.9613	1.63E-06	29	528.9529	528.9614	0.0084	-0.0001
6	f	0	2	0	2	1049.8414	1.02E-02	8	1049.8943	1049.8402	-0.0530	0.0012
6	f	1	1	0	1	1380.9755	6.67E-04	3	1380.9678	1380.9787	0.0077	-0.0032

6	f	0	3	0	1	1581.9331	2.48E-06	5	1581.9097	1581.9304	0.0234	0.0027
6	f	1	2	0	2	1895.4726	1.58E-02	1	1895.5397	1895.4637	-0.0671	0.0088
6	f	0	4	0	2	2108.0955	1.25E-02	1	2108.0876	2108.0999	0.0080	-0.0044
6	f	2	1	0	1	2226.5223	3.90E-03	2	2226.5336	2226.5164	-0.0113	0.0059
6	f	1	3	0	1	2420.6684	2.00E-04	3	2420.6347	2420.6705	0.0338	-0.0021
6	f	0	1	1	1	2583.7965	4.30E-03	2	2583.8160	2583.7933	-0.0196	0.0031
6	f	0	5	0	1	2644.1740	7.07E-03	1	2644.1752	2644.1499	-0.0012	0.0241
6	f	2	3	1	1	5289.0154	4.00E-04	2	5289.2470	5289.0381	-0.2316	-0.0227
6	f	1	1	2	1	5460.8839	4.00E-04	1	5460.5349	5460.8737	0.3490	0.0102
6	f	2	1	2	1	6299.3247	6.00E-04	1	6298.9871	6299.2354	0.3376	0.0893
6	f	4	3	1	1	6930.3647	4.50E-03	1	6932.1311	6930.3440	-1.7664	0.0207
6	f	1	3	3	1	8466.7897	5.50E-03	1	8466.7623	8466.8230	0.0274	-0.0332
6	f	1	3	5	1	12382.4595	8.40E-03	2	12381.7641	12382.3636	0.6955	0.0959
6	f	0	1	6	1	12512.3272	8.50E-03	1	12512.3552	12512.2430	-0.0280	0.0842
6	f	1	1	6	1	13340.4827	5.90E-03	1	13340.4224	13340.4837	0.0603	-0.0011
7	e	0	0	0	0	11.3598	3.85E-07	121	11.3297	11.3589	0.0302	0.0009
7	e	0	1	0	1	531.7958	1.63E-06	45	531.7800	531.7956	0.0158	0.0002
7	e	1	0	0	0	870.2929	4.34E-05	11	870.3129	870.2860	-0.0200	0.0069
7	e	0	2	0	2	1052.6911	8.77E-03	6	1052.7366	1052.6896	-0.0455	0.0016
7	e	0	2	0	0	1058.4368	1.07E-06	18	1058.4890	1058.4355	-0.0521	0.0013
7	e	1	1	0	1	1383.8016	1.30E-04	4	1383.7856	1383.8043	0.0160	-0.0027
7	e	0	3	0	1	1584.7655	2.48E-06	5	1584.7345	1584.7622	0.0310	0.0033
7	e	2	0	0	0	1722.2677	1.20E-04	7	1722.2746	1722.2693	-0.0069	-0.0016
7	e	1	2	0	0	1903.5895	2.50E-02	1	1903.5002	1903.6084	0.0893	-0.0189
7	e	0	0	1	0	2073.4927	9.11E-07	5	2073.5000	2073.4914	-0.0074	0.0013
7	e	0	4	0	2	2110.9499	1.14E-02	1	2110.9365	2110.9560	0.0135	-0.0060
7	e	0	4	0	0	2116.2498	9.00E-05	4	2116.1098	2116.2735	0.1400	-0.0237
7	e	2	1	0	1	2229.3397	3.90E-03	2	2229.3420	2229.3332	-0.0023	0.0065
7	e	1	3	0	1	2423.4924	4.00E-04	3	2423.4506	2423.4941	0.0419	-0.0017
7	e	3	0	0	0	2567.2500	4.00E-03	1	2567.1406	2567.2588	0.1094	-0.0088
7	e	0	1	1	1	2586.6144	2.38E-06	4	2586.6262	2586.6109	-0.0118	0.0035
7	e	2	2	0	0	2742.7343	4.00E-03	1	2742.6207	2742.7401	0.1135	-0.0058
7	e	1	0	1	0	2929.3707	4.18E-03	3	2929.3839	2929.3862	-0.0132	-0.0154
7	e	1	4	0	2	2943.6154	1.14E-02	1	2943.7614	2943.5648	-0.1460	0.0506
7	e	1	4	0	0	2948.4855	1.05E-02	1	2948.4271	2948.4904	0.0583	-0.0049
7	e	0	2	1	0	3106.8837	4.00E-03	1	3106.9629	3106.8644	-0.0792	0.0192
7	e	2	4	0	0	3774.1708	3.55E-03	1	3774.2845	3774.1100	-0.1137	0.0608
7	e	2	0	1	0	3779.7450	3.55E-03	3	3779.8006	3779.7346	-0.0556	0.0105
7	e	1	2	1	0	3948.7301	3.00E-04	3	3948.6372	3948.7216	0.0929	0.0084
7	e	1	6	0	0	4001.5237	3.00E-04	2	4002.7611	4001.5288	-1.2373	-0.0050
7	e	0	0	2	0	4112.6106	3.00E-04	5	4112.5958	4112.6127	0.0148	-0.0021
7	e	0	4	1	0	4152.5703	3.00E-04	2	4152.6260	4152.5747	-0.0557	-0.0044
7	e	1	3	1	1	4462.0680	3.00E-04	1	4462.0980	4462.0710	-0.0300	-0.0031
7	e	0	1	2	1	4618.3488	1.02E-03	2	4618.3001	4618.3510	0.0487	-0.0022
7	e	3	0	1	0	4621.0379	3.55E-03	1	4620.9690	4621.0598	0.0688	-0.0219
7	e	0	5	1	1	4677.4483	3.00E-04	1	4677.6037	4677.4498	-0.1554	-0.0015
7	e	2	2	1	0	4784.4955	3.03E-04	3	4784.4657	4784.4685	0.0298	0.0270
7	e	1	0	2	0	4965.0799	4.00E-04	3	4965.0838	4965.0922	-0.0040	-0.0124
7	e	1	4	1	0	4981.7557	3.03E-04	2	4981.5746	4981.7509	0.1810	0.0048
7	e	0	2	2	2	5124.6590	7.08E-03	1	5125.0583	5124.7947	-0.3993	-0.1357
7	e	0	2	2	0	5132.2475	4.00E-04	4	5132.2151	5132.2538	0.0324	-0.0063
7	e	0	6	1	0	5207.3974	3.00E-04	1	5207.7805	5207.5399	-0.3832	-0.1425
7	e	2	3	1	1	5291.8256	2.55E-03	2	5292.0375	5291.8377	-0.2120	-0.0121
7	e	4	0	1	0	5456.1177	4.00E-04	1	5455.9367	5456.1143	0.1810	0.0034
7	e	1	1	2	1	5463.6775	4.00E-04	1	5463.3194	5463.6667	0.3581	0.0109
7	e	3	2	1	0	5613.7269	6.00E-04	2	5613.9080	5613.6037	-0.1811	0.1233
7	e	2	4	1	0	5803.2916	4.02E-04	2	5803.4702	5803.2772	-0.1786	0.0144

7	e	2	0	2	0	5813.0814	3.24E-04	3	5813.0317	5813.1176	0.0497	-0.0362
7	e	1	2	2	2	5963.5116	7.08E-03	1	5963.5198	5963.6179	-0.0082	-0.1062
7	e	1	2	2	0	5970.5698	6.00E-04	4	5970.4570	5970.5558	0.1128	0.0141
7	e	0	0	3	0	6128.7339	6.00E-04	4	6128.7050	6128.7348	0.0289	-0.0009
7	e	0	4	2	0	6165.9942	6.00E-04	4	6166.1141	6166.0030	-0.1199	-0.0089
7	e	2	1	2	1	6302.1113	6.00E-04	1	6301.7634	6302.0214	0.3479	0.0900
7	e	4	2	1	0	6440.3122	4.50E-03	1	6443.4320	6440.6608	-3.1198	-0.3486
7	e	3	4	1	0	6622.3829	4.50E-03	1	6623.3649	6622.4396	-0.9820	-0.0567
7	e	3	0	2	0	6651.2333	1.00E-03	2	6651.1996	6651.2285	0.0337	0.0048
7	e	2	2	2	0	6802.7579	1.00E-03	1	6802.9044	6802.7053	-0.1465	0.0526
7	e	1	0	3	0	6977.3191	6.02E-04	4	6977.3134	6977.2946	0.0057	0.0246
7	e	0	2	3	2	7125.9843	7.10E-03	1	7126.3821	7126.2295	-0.3978	-0.2452
7	e	3	5	1	1	7127.7679	5.50E-03	1	7129.1279	7127.8481	-1.3600	-0.0802
7	e	0	2	3	0	7134.5784	1.00E-03	1	7134.3720	7134.6360	0.2063	-0.0576
7	e	1	1	3	1	7468.5873	1.00E-03	1	7468.1478	7468.5487	0.4395	0.0386
7	e	4	0	2	0	7483.2767	4.50E-03	1	7483.3513	7483.1992	-0.0746	0.0775
7	e	3	2	2	2	7622.5418	1.26E-02	1	7623.0201	7622.5050	-0.4783	0.0368
7	e	2	4	2	0	7809.2029	4.50E-03	1	7809.4129	7809.2708	-0.2099	-0.0678
7	e	2	0	3	0	7823.0602	2.00E-03	1	7822.9887	7823.1005	0.0715	-0.0402
7	e	1	2	3	0	7969.2349	4.50E-03	1	7969.0605	7969.1623	0.1744	0.0726
7	e	0	0	4	0	8121.8278	4.50E-03	1	8121.8331	8121.8355	-0.0053	-0.0077
7	e	1	0	4	0	8965.9607	1.00E-02	2	8965.8555	8965.8926	0.1052	0.0680
7	e	1	2	4	0	9944.6537	1.00E-02	2	9944.5382	9944.6350	0.1154	0.0187
7	e	0	0	5	0	10091.9317	1.00E-02	2	10091.8900	10091.9022	0.0416	0.0295
7	e	0	4	4	0	10125.1882	1.00E-02	2	10125.1871	10125.1777	0.0011	0.0105
7	e	0	1	5	1	10575.3284	1.00E-02	4	10575.2909	10575.3146	0.0375	0.0137
7	e	1	0	5	0	10931.0615	1.00E-02	1	10930.6002	10930.9560	0.4613	0.1055
7	e	1	4	4	0	10946.0542	1.17E-02	2	10945.7145	10946.0660	0.3397	-0.0118
7	e	2	4	4	0	11752.1754	5.00E-03	2	11752.0645	11752.3934	0.1109	-0.2180
7	e	2	0	5	0	11772.9535	1.00E-02	2	11772.9010	11772.9031	0.0525	0.0504
7	e	1	2	5	0	11897.1810	1.00E-02	2	11896.9925	11897.0767	0.1885	0.1043
7	e	0	0	6	0	12038.8867	1.00E-02	2	12038.7169	12038.8873	0.1698	-0.0007
7	e	1	3	5	1	12385.2195	5.00E-03	2	12384.4995	12385.1070	0.7200	0.1125
7	e	2	2	5	0	12718.0057	1.00E-02	2	12718.6703	12717.9233	-0.6646	0.0824
7	e	1	1	6	1	13343.2091	5.00E-03	2	13342.9226	13343.2122	0.2865	-0.0031
7	e	0	0	7	0	13962.7575	1.00E-02	1	13962.1956	13962.7304	0.5619	0.0270
7	f	0	1	0	1	531.8077	1.64E-06	34	531.7918	531.8075	0.0158	0.0002
7	f	0	2	0	2	1052.6911	8.77E-03	4	1052.7367	1052.6896	-0.0455	0.0016
7	f	1	1	0	1	1383.8137	2.40E-03	2	1383.7983	1383.8171	0.0154	-0.0034
7	f	0	3	0	1	1584.7886	2.49E-06	6	1584.7575	1584.7854	0.0311	0.0033
7	f	0	4	0	2	2110.9500	1.14E-02	1	2110.9366	2110.9561	0.0134	-0.0061
7	f	2	1	0	1	2229.3534	3.90E-03	2	2229.3556	2229.3469	-0.0022	0.0065
7	f	1	3	0	1	2423.5167	4.00E-04	3	2423.4748	2423.5185	0.0418	-0.0019
7	f	0	1	1	1	2586.6264	2.40E-06	4	2586.6381	2586.6229	-0.0116	0.0035
7	f	1	4	0	2	2943.6154	1.14E-02	1	2943.7615	2943.5649	-0.1461	0.0506
7	f	1	3	1	1	4462.0930	3.00E-04	1	4462.1227	4462.0962	-0.0297	-0.0032
7	f	2	3	1	1	5291.8486	4.00E-04	2	5292.0639	5291.8647	-0.2153	-0.0160
7	f	0	1	3	1	6627.0406	6.00E-04	1	6626.9347	6627.0482	0.1059	-0.0075
7	f	5	1	1	1	6766.7762	5.50E-03	1	6767.0579	6766.7142	-0.2818	0.0619
7	f	3	5	1	1	7127.8051	5.50E-03	1	7129.1615	7127.8844	-1.3564	-0.0794
7	f	3	2	2	2	7622.5418	1.26E-02	1	7623.0202	7622.5051	-0.4784	0.0367
7	f	2	1	3	1	8302.9967	5.50E-03	1	8302.7445	8302.8717	0.2522	0.1250
7	f	1	3	5	1	12385.2339	5.00E-03	2	12384.5269	12385.1365	0.7070	0.0974
7	f	1	1	6	1	13343.2225	5.00E-03	2	13343.1695	13343.2313	0.0530	-0.0088
8	e	0	0	0	0	14.6055	4.41E-07	131	14.5667	14.6043	0.0388	0.0012
8	e	0	1	0	1	535.0454	1.64E-06	56	535.0211	535.0449	0.0242	0.0005
8	e	1	0	0	0	873.5288	4.34E-05	12	873.5394	873.5217	-0.0106	0.0072

8	e	0	2	0	2	1055.9488	5.00E-03	10	1055.9850	1055.9459	-0.0362	0.0028
8	e	0	2	0	0	1061.6925	1.09E-06	21	1061.7358	1061.6905	-0.0434	0.0019
8	e	1	1	0	1	1387.0401	4.40E-03	1	1387.0168	1387.0445	0.0233	-0.0044
8	e	0	3	0	1	1588.0223	2.49E-06	8	1587.9826	1588.0184	0.0397	0.0039
8	e	2	0	0	0	1725.4938	1.20E-04	6	1725.4906	1725.4950	0.0032	-0.0012
8	e	1	2	0	0	1906.8428	2.50E-02	1	1906.7378	1906.8549	0.1049	-0.0122
8	e	0	0	1	0	2076.7189	1.46E-06	4	2076.7178	2076.7175	0.0011	0.0013
8	e	0	4	0	2	2114.2157	7.12E-03	4	2114.1924	2114.2201	0.0233	-0.0044
8	e	0	4	0	0	2119.5133	9.00E-05	5	2119.3645	2119.5363	0.1488	-0.0230
8	e	1	3	0	1	2426.7484	2.85E-02	2	2426.6895	2426.7420	0.0589	0.0065
8	e	3	0	0	0	2570.4635	4.00E-03	1	2570.3459	2570.4744	0.1176	-0.0108
8	e	0	1	1	1	2589.8448	2.92E-06	4	2589.8480	2589.8412	-0.0032	0.0036
8	e	2	2	0	0	2745.9729	4.00E-03	1	2745.8490	2745.9779	0.1239	-0.0050
8	e	1	0	1	0	2932.5883	4.21E-03	3	2932.5919	2932.6035	-0.0036	-0.0153
8	e	1	4	0	0	2951.7943	1.51E-03	2	2951.6727	2951.7447	0.1215	0.0496
8	e	0	2	1	0	3110.1206	4.00E-03	1	3110.1903	3110.1009	-0.0698	0.0196
8	e	2	0	1	0	3782.9753	1.00E-01	2	3783.0056	3782.9478	-0.0304	0.0275
8	e	1	2	1	0	3951.9594	3.00E-04	3	3951.8560	3951.9503	0.1034	0.0090
8	e	0	0	2	0	4115.8175	3.00E-04	5	4115.7945	4115.8197	0.0230	-0.0022
8	e	0	4	1	0	4155.8156	3.00E-04	3	4155.8614	4155.8194	-0.0458	-0.0038
8	e	0	5	1	1	4680.6927	3.00E-04	1	4680.8382	4680.6936	-0.1455	-0.0009
8	e	2	2	1	0	4787.6783	2.50E-02	2	4787.6761	4787.6897	0.0022	-0.0114
8	e	1	0	2	0	4968.2800	3.03E-04	5	4968.2741	4968.2922	0.0059	-0.0122
8	e	1	4	1	2	4978.8539	7.08E-03	1	4979.1808	4978.9073	-0.3269	-0.0534
8	e	1	4	1	0	4984.9915	3.03E-04	3	4984.8005	4984.9864	0.1909	0.0051
8	e	0	2	2	2	5127.8782	7.08E-03	1	5128.2680	5128.0138	-0.3898	-0.1356
8	e	0	2	2	0	5135.4659	3.00E-04	5	5135.4235	5135.4718	0.0424	-0.0059
8	e	0	6	1	0	5210.6504	3.00E-04	1	5211.0230	5210.7917	-0.3726	-0.1413
8	e	2	3	1	1	5295.0455	4.00E-04	2	5295.2493	5295.0604	-0.2038	-0.0149
8	e	4	0	1	0	5459.3057	4.00E-04	1	5459.1130	5459.3016	0.1927	0.0041
8	e	1	1	2	1	5466.8812	3.27E-04	2	5466.5131	5466.8706	0.3681	0.0106
8	e	3	2	1	0	5616.9436	6.00E-04	2	5617.1126	5616.8200	-0.1690	0.1236
8	e	0	3	2	1	5648.7260	3.11E-03	2	5649.0570	5648.7203	-0.3310	0.0057
8	e	2	4	1	0	5806.5193	6.00E-04	1	5806.6850	5806.5036	-0.1657	0.0157
8	e	2	0	2	0	5816.2742	3.23E-04	4	5816.2153	5816.3103	0.0589	-0.0362
8	e	1	2	2	2	5966.7244	7.08E-03	1	5966.7213	5966.8302	0.0031	-0.1058
8	e	1	2	2	0	5973.7817	6.00E-04	4	5973.6572	5973.7668	0.1244	0.0149
8	e	0	0	3	0	6131.9216	6.00E-04	4	6131.8850	6131.9228	0.0366	-0.0012
8	e	0	4	2	0	6169.2210	6.00E-04	4	6169.3302	6169.2294	-0.1092	-0.0084
8	e	5	0	1	0	6287.4158	4.50E-03	1	6287.1015	6287.3502	0.3143	0.0655
8	e	1	3	2	1	6480.6071	6.00E-04	1	6480.6250	6480.6254	-0.0178	-0.0183
8	e	0	1	3	1	6630.5193	6.00E-04	1	6630.1063	6630.2279	0.4130	0.2914
8	e	3	0	2	0	6654.4131	1.00E-03	2	6654.3684	6654.4079	0.0446	0.0052
8	e	2	2	2	0	6805.9631	1.00E-03	2	6806.0975	6805.9101	-0.1343	0.0531
8	e	1	0	3	0	6980.5040	1.00E-03	4	6980.4876	6980.4788	0.0164	0.0252
8	e	1	4	2	0	6995.4322	1.00E-03	2	6995.1296	6995.4904	0.3026	-0.0581
8	e	0	2	3	2	7129.1858	7.10E-03	1	7129.5728	7129.4298	-0.3870	-0.2441
8	e	0	2	3	0	7137.7772	6.00E-04	3	7137.5615	7137.8355	0.2158	-0.0583
8	e	1	1	3	1	7471.7722	1.00E-03	1	7471.3231	7471.7347	0.4491	0.0375
8	e	2	0	3	0	7826.2336	2.00E-03	3	7826.1527	7826.2738	0.0809	-0.0402
8	e	1	2	3	0	7972.4382	4.50E-03	2	7972.2426	7972.3558	0.1955	0.0824
8	e	0	0	4	0	8124.9974	4.50E-03	1	8124.9948	8125.0048	0.0025	-0.0074
8	e	1	3	3	1	8472.7639	5.50E-03	1	8472.7125	8472.7941	0.0513	-0.0302
8	e	0	1	4	1	8615.8507	6.50E-03	1	8615.7384	8615.8559	0.1122	-0.0053
8	e	1	0	4	0	8969.1288	1.00E-02	1	8969.0161	8969.0631	0.1126	0.0657
8	e	1	2	4	0	9947.8203	1.00E-02	2	9947.7027	9947.8110	0.1176	0.0093
8	e	0	0	5	0	10095.0863	1.00E-02	2	10095.0344	10095.0535	0.0519	0.0328

8	e	0	4	4	0	10128.3803	1.00E-02	2	10128.3642	10128.3683	0.0161	0.0120
8	e	0	1	5	1	10578.4894	1.00E-02	4	10578.4374	10578.4695	0.0520	0.0200
8	e	1	0	5	0	10934.2268	1.00E-02	1	10933.7490	10934.1136	0.4777	0.1132
8	e	1	4	4	0	10949.2138	1.00E-02	2	10948.8730	10949.2353	0.3408	-0.0215
8	e	2	4	4	0	11755.3338	2.08E-02	1	11755.2316	11755.5715	0.1021	-0.2377
8	e	2	0	5	0	11776.0933	1.00E-02	2	11776.0279	11776.0394	0.0654	0.0539
8	e	1	2	5	0	11900.3368	1.00E-02	2	11900.1401	11900.2437	0.1967	0.0931
8	e	0	0	6	0	12042.0208	1.00E-02	2	12041.8452	12042.0211	0.1756	-0.0003
8	e	1	3	5	1	12388.3708	1.46E-02	1	12387.6492	12388.2675	0.7216	0.1033
8	e	2	2	5	0	12721.1548	1.00E-02	1	12721.8148	12721.0778	-0.6600	0.0770
8	e	0	2	6	0	13007.6728	1.08E-02	1	13006.4017	13007.7637	1.2711	-0.0909
8	e	1	1	6	1	13346.3528	5.00E-03	1	13346.2800	13346.3468	0.0728	0.0060
8	e	0	0	7	0	13965.8633	1.00E-02	2	13965.3150	13965.8482	0.5482	0.0151
8	f	0	1	0	1	535.0606	1.66E-06	37	535.0363	535.0602	0.0243	0.0005
8	f	0	2	0	2	1055.9488	5.00E-03	7	1055.9850	1055.9460	-0.0362	0.0028
8	f	1	1	0	1	1387.0587	1.30E-04	3	1387.0331	1387.0610	0.0255	-0.0023
8	f	0	3	0	1	1588.0521	2.50E-06	6	1588.0122	1588.0482	0.0399	0.0039
8	f	0	4	0	2	2114.2138	7.12E-03	4	2114.1925	2114.2202	0.0212	-0.0064
8	f	1	3	0	1	2426.7639	2.85E-02	2	2426.7207	2426.7734	0.0432	-0.0095
8	f	0	1	1	1	2589.8603	2.93E-06	4	2589.8633	2589.8567	-0.0029	0.0036
8	f	1	3	1	1	4465.3311	3.00E-04	1	4465.3500	4465.3338	-0.0189	-0.0027
8	f	2	3	1	1	5295.0786	4.00E-04	2	5295.2832	5295.0950	-0.2046	-0.0164
8	f	0	3	2	1	5648.7576	4.00E-04	1	5649.0871	5648.7512	-0.3295	0.0064
8	f	1	2	2	2	5966.7246	7.08E-03	1	5966.7213	5966.8302	0.0033	-0.1057
8	f	1	3	2	1	6480.6398	6.00E-04	1	6480.6573	6480.6589	-0.0176	-0.0191
8	f	0	1	4	1	8615.8698	6.50E-03	1	8615.7543	8615.8729	0.1154	-0.0032
8	f	1	3	5	1	12388.3827	1.46E-02	1	12387.6844	12388.3054	0.6983	0.0772
8	f	1	1	6	1	13346.3647	5.00E-03	1	13346.3107	13346.3714	0.0539	-0.0067
9	e	0	0	0	0	18.2568	4.92E-07	137	18.2083	18.2553	0.0485	0.0014
9	e	0	1	0	1	538.7011	1.66E-06	47	538.6674	538.7003	0.0337	0.0008
9	e	1	0	0	0	877.1692	4.34E-05	15	877.1693	877.1617	-0.0001	0.0075
9	e	0	2	0	2	1059.6127	5.00E-03	14	1059.6394	1059.6094	-0.0267	0.0033
9	e	0	2	0	0	1065.3550	1.11E-06	30	1065.3885	1065.3524	-0.0336	0.0026
9	e	1	1	0	1	1390.6878	1.30E-04	4	1390.6519	1390.6897	0.0359	-0.0020
9	e	0	3	0	1	1591.6862	2.50E-06	11	1591.6366	1591.6816	0.0496	0.0046
9	e	2	0	0	0	1729.1231	1.17E-04	6	1729.1086	1729.1239	0.0145	-0.0008
9	e	1	2	0	0	1910.4958	3.34E-04	5	1910.3801	1910.5072	0.1158	-0.0114
9	e	0	0	1	0	2080.3486	3.56E-03	3	2080.3378	2080.3469	0.0109	0.0017
9	e	0	4	0	2	2117.8884	7.12E-03	6	2117.8553	2117.8921	0.0332	-0.0037
9	e	0	4	0	0	2123.1846	9.00E-05	8	2123.0260	2123.2069	0.1587	-0.0222
9	e	2	1	0	1	2236.2066	3.90E-03	1	2236.1870	2236.1989	0.0196	0.0077
9	e	1	3	0	1	2430.3960	3.53E-03	3	2430.3333	2430.3958	0.0627	0.0002
9	e	3	0	0	0	2574.0815	4.00E-03	2	2573.9519	2574.0919	0.1296	-0.0104
9	e	0	1	1	1	2593.4789	3.52E-03	3	2593.4725	2593.4753	0.0064	0.0036
9	e	0	5	0	1	2653.9404	5.00E-03	2	2653.9105	2653.9092	0.0299	0.0312
9	e	2	2	0	0	2749.6162	4.00E-03	1	2749.4808	2749.6204	0.1354	-0.0042
9	e	1	0	1	0	2936.2082	4.85E-03	3	2936.2009	2936.2231	0.0073	-0.0149
9	e	1	4	0	0	2955.4560	2.67E-04	3	2955.3240	2955.4058	0.1320	0.0502
9	e	0	2	1	0	3113.7620	4.00E-03	1	3113.8212	3113.7420	-0.0592	0.0201
9	e	2	0	1	0	3786.6001	1.00E-01	2	3786.6114	3786.5627	-0.0113	0.0374
9	e	1	2	1	0	3955.5923	3.00E-04	4	3955.4770	3955.5826	0.1152	0.0097
9	e	1	6	0	0	4008.4556	3.00E-04	1	4009.6729	4008.4592	-1.2172	-0.0036
9	e	0	0	2	0	4119.4252	3.00E-04	4	4119.3931	4119.4275	0.0321	-0.0023
9	e	0	4	1	0	4159.4663	3.00E-04	3	4159.5012	4159.4696	-0.0349	-0.0033
9	e	1	3	1	1	4468.9336	3.00E-04	1	4468.9409	4468.9355	-0.0073	-0.0019
9	e	0	1	2	1	4625.1734	3.00E-04	1	4625.1057	4625.1752	0.0677	-0.0018
9	e	0	5	1	1	4684.3426	3.00E-04	1	4684.4769	4684.3429	-0.1344	-0.0004

9	e	2	2	1	0	4791.2896	2.50E-02	2	4791.2879	4791.3134	0.0017	-0.0238
9	e	1	0	2	0	4971.8800	4.00E-04	4	4971.8631	4971.8922	0.0170	-0.0122
9	e	1	4	1	2	4982.4987	7.08E-03	1	4982.8131	4982.5513	-0.3144	-0.0526
9	e	1	4	1	0	4988.6320	3.03E-04	3	4988.4296	4988.6262	0.2023	0.0057
9	e	0	2	2	2	5131.4999	7.08E-03	1	5131.8789	5131.6352	-0.3790	-0.1353
9	e	0	2	2	0	5139.0867	3.00E-04	5	5139.0328	5139.0920	0.0539	-0.0053
9	e	0	6	1	0	5214.3084	3.00E-04	2	5214.6707	5214.4501	-0.3623	-0.1417
9	e	2	3	1	1	5298.6720	5.78E-04	2	5298.8626	5298.6859	-0.1906	-0.0139
9	e	4	0	1	0	5462.8917	4.00E-04	2	5462.6863	5462.8873	0.2054	0.0045
9	e	1	1	2	1	5470.4858	4.65E-04	2	5470.1059	5470.4750	0.3799	0.0108
9	e	3	2	1	0	5620.5622	6.00E-04	1	5620.7177	5620.4383	-0.1555	0.1239
9	e	0	3	2	1	5652.3490	4.00E-04	1	5652.6678	5652.3425	-0.3188	0.0065
9	e	2	4	1	0	5810.1493	4.02E-04	3	5810.3015	5810.1333	-0.1522	0.0160
9	e	2	0	2	0	5819.8663	3.22E-04	3	5819.7968	5819.9021	0.0696	-0.0358
9	e	1	2	2	0	5977.3946	6.00E-04	4	5977.2575	5977.3792	0.1371	0.0154
9	e	1	6	1	0	6030.3108	4.10E-03	1	6031.0589	6030.6731	-0.7481	-0.3623
9	e	0	0	3	0	6135.5080	4.02E-04	6	6135.4624	6135.5092	0.0456	-0.0012
9	e	0	4	2	0	6172.8512	6.00E-04	4	6172.9483	6172.8590	-0.0971	-0.0079
9	e	1	3	2	1	6484.2217	6.00E-04	1	6484.2269	6484.2398	-0.0052	-0.0181
9	e	3	4	1	0	6629.2313	4.50E-03	1	6630.1901	6629.2893	-0.9587	-0.0579
9	e	3	0	2	0	6657.9901	1.00E-03	2	6657.9333	6657.9847	0.0568	0.0054
9	e	5	1	1	1	6773.5297	6.50E-03	1	6773.7838	6773.4646	-0.2541	0.0651
9	e	2	2	2	0	6809.5697	1.00E-03	1	6809.6896	6809.5154	-0.1198	0.0543
9	e	4	3	1	1	6939.9776	8.50E-03	1	6941.7023	6939.9541	-1.7248	0.0234
9	e	1	0	3	0	6984.0862	1.00E-03	4	6984.0585	6984.0610	0.0278	0.0252
9	e	1	4	2	0	6999.0483	1.00E-03	2	6998.7352	6999.1072	0.3131	-0.0589
9	e	6	0	1	0	7112.0410	6.50E-03	1	7111.6059	7111.8735	0.4350	0.1675
9	e	0	2	3	2	7132.7861	7.10E-03	2	7133.1624	7133.0302	-0.3763	-0.2441
9	e	0	2	3	0	7141.3782	1.00E-03	1	7141.1496	7141.4350	0.2286	-0.0568
9	e	1	1	3	1	7475.3569	1.00E-03	1	7474.8954	7475.3190	0.4616	0.0379
9	e	4	0	2	0	7490.0116	4.50E-03	1	7490.5506	7489.9339	-0.5390	0.0777
9	e	2	4	2	0	7816.0278	4.50E-03	1	7816.2099	7816.0936	-0.1821	-0.0658
9	e	2	0	3	0	7829.8042	2.00E-03	2	7829.7122	7829.8437	0.0920	-0.0396
9	e	1	2	3	0	7976.0423	4.50E-03	1	7975.8224	7975.9485	0.2198	0.0938
9	e	0	0	4	0	8128.5643	4.50E-03	1	8128.5517	8128.5702	0.0125	-0.0059
9	e	1	3	3	1	8476.3612	5.50E-03	1	8476.2942	8476.3888	0.0670	-0.0276
9	e	0	1	4	1	8619.4206	6.50E-03	1	8619.2990	8619.4262	0.1216	-0.0056
9	e	3	0	3	0	8664.5067	5.50E-03	1	8664.5576	8664.4601	-0.0509	0.0466
9	e	1	0	4	0	8972.7135	1.00E-02	1	8972.5718	8972.6297	0.1417	0.0838
9	e	1	2	4	0	9951.4001	1.00E-02	2	9951.2627	9951.3839	0.1374	0.0162
9	e	0	0	5	0	10098.6321	1.00E-02	2	10098.5717	10098.5988	0.0604	0.0333
9	e	0	4	4	0	10131.9711	1.00E-02	2	10131.9384	10131.9578	0.0327	0.0133
9	e	0	1	5	1	10582.0451	1.00E-02	5	10581.9772	10582.0187	0.0679	0.0264
9	e	1	0	5	0	10937.7786	1.00E-02	2	10937.2913	10937.6658	0.4872	0.1128
9	e	1	4	4	0	10952.7791	1.00E-02	2	10952.4262	10952.8008	0.3528	-0.0217
9	e	0	2	5	0	11077.2337	2.26E-02	1	11076.4727	11077.3410	0.7610	-0.1073
9	e	2	0	5	0	11779.6203	1.00E-02	2	11779.5457	11779.5676	0.0747	0.0527
9	e	1	2	5	0	11903.8966	1.00E-02	2	11903.6810	11903.8021	0.2156	0.0945
9	e	0	0	6	0	12045.5466	1.00E-02	2	12045.3645	12045.5465	0.1821	0.0001
9	e	1	3	5	1	12391.9416	1.31E-02	2	12391.1927	12391.8232	0.7489	0.1184
9	e	2	2	5	0	12724.7065	1.00E-02	1	12725.3524	12724.6266	-0.6460	0.0799
9	e	0	2	6	0	13011.2055	1.00E-02	1	13009.9300	13011.3043	1.2755	-0.0989
9	e	1	1	6	1	13349.8831	5.00E-03	2	13349.8068	13349.8731	0.0763	0.0101
9	e	0	0	7	0	13969.3806	1.00E-02	2	13968.8230	13969.3556	0.5576	0.0250
9	f	0	1	0	1	538.7202	1.67E-06	36	538.6863	538.7194	0.0339	0.0008
9	f	0	2	0	2	1059.6128	5.00E-03	10	1059.6394	1059.6094	-0.0267	0.0033
9	f	1	1	0	1	1390.7093	3.01E-04	4	1390.6723	1390.7102	0.0370	-0.0009

9	f	0	3	0	1	1591.7234	2.51E-06	9	1591.6736	1591.7189	0.0498	0.0045
9	f	0	4	0	2	2117.8866	7.12E-03	6	2117.8555	2117.8923	0.0311	-0.0057
9	f	2	1	0	1	2236.2285	3.90E-03	1	2236.2088	2236.2208	0.0197	0.0077
9	f	1	3	0	1	2430.4181	2.85E-02	3	2430.3723	2430.4351	0.0458	-0.0170
9	f	0	1	1	1	2593.4985	3.52E-03	2	2593.4915	2593.4947	0.0070	0.0038
9	f	0	5	0	1	2653.9946	5.00E-03	1	2653.9649	2653.9638	0.0298	0.0308
9	f	1	3	1	1	4468.9738	3.00E-04	1	4468.9806	4468.9760	-0.0067	-0.0021
9	f	2	3	1	1	5298.7139	4.00E-04	2	5298.9049	5298.7292	-0.1911	-0.0153
9	f	0	3	2	1	5652.3881	4.00E-04	1	5652.7055	5652.3812	-0.3174	0.0069
9	f	1	2	2	2	5970.3392	7.08E-03	1	5970.3229	5970.4440	0.0163	-0.1049
9	f	1	3	2	1	6484.2635	6.00E-04	1	6484.2674	6484.2816	-0.0039	-0.0181
9	f	0	1	3	1	6633.8322	6.00E-04	1	6633.7073	6633.8399	0.1249	-0.0076
9	f	0	2	3	2	7132.7863	7.10E-03	1	7133.1624	7133.0302	-0.3761	-0.2440
9	f	0	1	4	1	8619.4419	6.50E-03	1	8619.3189	8619.4475	0.1231	-0.0055
9	f	0	1	5	1	10582.0643	1.35E-02	1	10581.9978	10582.0410	0.0666	0.0234
9	f	1	3	5	1	12391.9590	1.31E-02	2	12391.2366	12391.8705	0.7225	0.0885
9	f	1	1	6	1	13349.9039	5.00E-03	2	13349.8454	13349.9061	0.0585	-0.0022
10	e	0	0	0	0	22.3137	5.39E-07	139	22.2545	22.3119	0.0592	0.0018
10	e	0	1	0	1	542.7630	1.67E-06	47	542.7187	542.7618	0.0443	0.0012
10	e	1	0	0	0	881.2141	4.34E-05	20	881.2024	881.2062	0.0116	0.0079
10	e	0	2	0	2	1063.6837	5.00E-03	12	1063.6997	1063.6798	-0.0161	0.0039
10	e	0	2	0	0	1069.4245	1.13E-06	26	1069.4471	1069.4212	-0.0226	0.0033
10	e	1	1	0	1	1394.7384	1.30E-04	9	1394.6908	1394.7399	0.0476	-0.0015
10	e	0	3	0	1	1595.7572	2.51E-06	10	1595.6967	1595.7518	0.0605	0.0054
10	e	2	0	0	0	1733.1556	1.17E-04	7	1733.1285	1733.1560	0.0271	-0.0004
10	e	1	2	0	0	1914.5548	3.34E-04	6	1914.4270	1914.5653	0.1277	-0.0105
10	e	0	0	1	0	2084.3813	3.56E-03	6	2084.3599	2084.3796	0.0214	0.0017
10	e	0	4	0	2	2121.9692	7.12E-03	6	2121.9251	2121.9721	0.0441	-0.0029
10	e	0	4	0	0	2127.2639	9.00E-05	10	2127.0943	2127.2853	0.1696	-0.0214
10	e	2	1	0	1	2240.2447	3.90E-03	2	2240.2134	2240.2374	0.0313	0.0073
10	e	1	3	0	1	2434.4567	3.53E-03	3	2434.3820	2434.4556	0.0747	0.0010
10	e	3	0	0	0	2578.1021	3.90E-03	4	2577.9585	2578.1114	0.1436	-0.0093
10	e	0	1	1	1	2597.5175	4.00E-03	2	2597.4996	2597.5132	0.0179	0.0043
10	e	0	5	0	1	2658.0181	5.00E-03	1	2657.9773	2657.9861	0.0408	0.0320
10	e	2	2	0	0	2753.6641	3.37E-04	3	2753.5161	2753.6676	0.1480	-0.0035
10	e	1	0	1	0	2940.2280	4.00E-03	2	2940.2108	2940.2447	0.0172	-0.0167
10	e	1	4	0	0	2959.5177	1.43E-02	2	2959.3810	2959.4736	0.1367	0.0441
10	e	0	2	1	0	3117.8081	4.00E-03	1	3117.8555	3117.7875	-0.0474	0.0206
10	e	2	0	1	0	3790.5918	3.55E-03	3	3790.6178	3790.5793	-0.0261	0.0124
10	e	1	2	1	0	3959.6410	1.00E-01	2	3959.5004	3959.6185	0.1406	0.0226
10	e	1	6	0	0	4012.5329	3.00E-04	1	4013.7386	4012.5359	-1.2058	-0.0031
10	e	0	0	2	0	4123.4337	3.00E-04	3	4123.3914	4123.4362	0.0423	-0.0025
10	e	0	4	1	0	4163.5227	3.00E-04	4	4163.5454	4163.5254	-0.0227	-0.0027
10	e	1	3	1	1	4472.9719	3.00E-04	1	4472.9661	4472.9734	0.0058	-0.0015
10	e	0	1	2	1	4629.1835	3.00E-04	1	4629.1089	4629.1894	0.0745	-0.0060
10	e	0	5	1	1	4688.3977	3.00E-04	2	4688.5200	4688.3977	-0.1223	0.0001
10	e	2	2	1	0	4795.3315	2.50E-02	2	4795.3009	4795.3398	0.0307	-0.0083
10	e	1	0	2	0	4975.8801	3.03E-04	5	4975.8508	4975.8921	0.0294	-0.0119
10	e	1	4	1	2	4986.5485	7.08E-03	1	4986.8489	4986.6002	-0.3004	-0.0517
10	e	1	4	1	0	4992.6767	3.03E-04	3	4992.4620	4992.6706	0.2147	0.0061
10	e	0	2	2	0	5143.1097	4.00E-04	4	5143.0431	5143.1144	0.0666	-0.0047
10	e	2	3	1	1	5302.7004	4.00E-04	2	5302.8773	5302.7142	-0.1768	-0.0137
10	e	4	0	1	0	5466.8761	4.00E-04	2	5466.6566	5466.8713	0.2195	0.0048
10	e	1	1	2	1	5474.4919	4.00E-04	1	5474.0979	5474.4798	0.3940	0.0120
10	e	0	3	2	1	5656.3744	3.00E-04	2	5656.6799	5656.3672	-0.3055	0.0072
10	e	2	4	1	0	5814.1829	6.00E-04	1	5814.3198	5814.1662	-0.1369	0.0167
10	e	2	0	2	0	5823.8575	6.00E-04	2	5823.7763	5823.8930	0.0812	-0.0355

10	e	1	2	2	2	5974.3548	7.08E-03	1	5974.3246	5974.4593	0.0303	-0.1044
10	e	1	2	2	0	5981.4097	4.00E-04	6	5981.2577	5981.3929	0.1520	0.0168
10	e	0	0	3	0	6139.4927	4.02E-04	5	6139.4373	6139.4941	0.0555	-0.0014
10	e	0	4	2	0	6176.8846	6.00E-04	4	6176.9684	6176.8920	-0.0837	-0.0073
10	e	1	3	2	1	6488.2384	6.00E-04	1	6488.2291	6488.2558	0.0094	-0.0174
10	e	3	4	1	0	6633.2627	4.50E-03	1	6634.2048	6633.3185	-0.9421	-0.0558
10	e	3	0	2	0	6661.9647	6.02E-04	3	6661.8943	6661.9588	0.0704	0.0059
10	e	2	2	2	0	6813.5769	1.00E-03	1	6813.6807	6813.5213	-0.1038	0.0556
10	e	1	0	3	0	6988.0668	1.00E-03	3	6988.0261	6988.0411	0.0407	0.0257
10	e	1	4	2	0	7003.0690	1.00E-03	1	7002.7414	7003.1260	0.3276	-0.0569
10	e	3	5	1	1	7138.6283	5.50E-03	1	7139.9327	7138.7019	-1.3044	-0.0735
10	e	0	2	3	0	7145.3775	6.00E-04	3	7145.1363	7145.4344	0.2412	-0.0569
10	e	4	0	2	0	7493.9731	4.50E-03	1	7494.0107	7493.8954	-0.0375	0.0778
10	e	3	2	2	2	7633.3485	8.96E-03	1	7633.7786	7633.3091	-0.4301	0.0394
10	e	2	0	3	0	7833.7714	2.00E-03	2	7833.6672	7833.8103	0.1042	-0.0389
10	e	1	2	3	0	7980.0524	4.50E-03	2	7979.8000	7979.9404	0.2524	0.1121
10	e	0	0	4	0	8132.5264	4.50E-03	2	8132.5038	8132.5317	0.0226	-0.0053
10	e	1	3	3	1	8480.3543	5.50E-03	1	8480.2739	8480.3830	0.0804	-0.0287
10	e	3	0	3	0	8668.4618	5.50E-03	1	8668.4962	8668.4128	-0.0344	0.0490
10	e	1	0	4	0	8976.6643	1.00E-02	1	8976.5224	8976.5925	0.1420	0.0718
10	e	1	2	4	0	9955.3842	1.00E-02	2	9955.2181	9955.3538	0.1661	0.0304
10	e	0	0	5	0	10102.5715	1.00E-02	3	10102.5020	10102.5371	0.0695	0.0344
10	e	0	4	4	0	10135.9599	1.00E-02	3	10135.9097	10135.9461	0.0502	0.0138
10	e	0	1	5	1	10585.9891	1.00E-02	4	10585.9102	10585.9622	0.0788	0.0269
10	e	1	0	5	0	10941.7235	1.00E-02	2	10941.2271	10941.6125	0.4964	0.1111
10	e	1	4	4	0	10956.7390	1.00E-02	2	10956.3744	10956.7625	0.3646	-0.0235
10	e	0	2	5	0	11081.1543	1.23E-02	1	11080.4137	11081.2948	0.7407	-0.1405
10	e	2	4	4	0	11762.9102	1.46E-02	2	11762.7534	11763.1193	0.1568	-0.2091
10	e	2	0	5	0	11783.5425	1.00E-02	2	11783.4543	11783.4878	0.0883	0.0547
10	e	1	2	5	0	11907.8484	1.00E-02	2	11907.6154	11907.7535	0.2331	0.0949
10	e	0	0	6	0	12049.4590	1.00E-02	2	12049.2748	12049.4636	0.1842	-0.0045
10	e	1	3	5	1	12395.9231	2.00E-02	1	12395.1298	12395.7738	0.7933	0.1493
10	e	2	2	5	0	12728.6518	1.00E-02	1	12729.2831	12728.5697	-0.6313	0.0821
10	e	1	1	6	1	13353.8151	5.00E-03	2	13353.7268	13353.7914	0.0883	0.0237
10	e	0	0	7	0	13973.2855	1.00E-02	2	13972.7206	13973.2527	0.5650	0.0329
10	f	0	1	0	1	542.7863	1.69E-06	36	542.7419	542.7852	0.0445	0.0012
10	f	0	2	0	2	1063.6838	5.00E-03	9	1063.6998	1063.6799	-0.0161	0.0039
10	f	1	1	0	1	1394.7633	3.00E-04	7	1394.7157	1394.7650	0.0476	-0.0016
10	f	0	3	0	1	1595.8026	2.52E-06	12	1595.7418	1595.7973	0.0608	0.0053
10	f	0	4	0	2	2121.9675	7.12E-03	6	2121.9253	2121.9724	0.0421	-0.0049
10	f	2	1	0	1	2240.2716	3.90E-03	2	2240.2401	2240.2642	0.0315	0.0074
10	f	1	3	0	1	2434.4875	2.85E-02	3	2434.4296	2434.5037	0.0579	-0.0162
10	f	0	1	1	1	2597.5419	4.30E-03	1	2597.5230	2597.5369	0.0189	0.0050
10	f	0	5	0	1	2658.0836	5.00E-03	2	2658.0438	2658.0529	0.0398	0.0307
10	f	1	3	1	1	4473.0215	3.00E-04	1	4473.0146	4473.0228	0.0069	-0.0013
10	f	2	3	1	1	5302.7537	7.39E-04	2	5302.9290	5302.7670	-0.1753	-0.0134
10	f	0	3	2	1	5656.4215	4.00E-04	1	5656.7259	5656.4145	-0.3044	0.0070
10	f	1	2	2	2	5974.3550	7.08E-03	1	5974.3247	5974.4594	0.0303	-0.1044
10	f	1	3	2	1	6488.2894	6.00E-04	1	6488.2785	6488.3069	0.0109	-0.0175
10	f	4	3	1	1	6944.0613	4.50E-03	1	6945.7637	6944.0366	-1.7024	0.0246
10	f	3	5	1	1	7138.6998	5.50E-03	1	7139.9984	7138.7731	-1.2986	-0.0734
10	f	1	3	3	1	8480.4100	5.50E-03	1	8480.3245	8480.4359	0.0854	-0.0259
10	f	1	3	5	1	12395.9422	2.00E-02	1	12395.1834	12395.8317	0.7588	0.1105
10	f	1	1	6	1	13353.8386	5.00E-03	2	13353.7745	13353.8285	0.0641	0.0101