

```

1  a0cyobVu          A T O M I C   M A S S   A D J U S T M E N T
0                               DATE 28oct95 TIME 19: 3
0                               A=   0 TO 273
    *****
    * file : mass_rmd.mas95 *
    *****

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This is one file out of a series of 6 corresponding to :

"The 1995 update to the atomic mass evaluation" by G.Audi and A.H.Wapstra
Nuclear Physics A595 vol. 4 p.409-480, December 25, 1995.

```

    for files : mass_rmd.mas95  masses recommended
                rct1_rmd.mas95  react energies recommended, table 1
                rct2_rmd.mas95  react energies recommended, table 2
                mass_exp.mas95  masses experimental
                rct1_exp.mas95  react energies experimental, table 1
                rct2_exp.mas95  react energies experimental, table 2

```

All files are 2931 lines long with 124 character per line (originally in fixed format).
Headers are 39 lines long.

Values in these files are exact (unrounded) copy of the published ones

They can conveniently be used for calculations.

None of them should be used in a publication as given in these files,
but instead, the rounded values published in the above Journal
should be used.

```

col 1      : Fortran character control: 1 = page feed  0 = line feed
format     : a1,i3,i5,i5,i5,1x,a3,a4,1x,f11.3,f9.3,f11.3,f9.3,4x,a2,f11.3,f9.3,2x,i3,1x,f10.3,f9.3
            cc NZ  N  Z  A   el  o   mass unc binding unc   B beta unc   atomic_mass unc
Warnings   : decimal point is replaced by # for values derived from
            systematical trends (see publications).
            * in place of value : not calculable

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.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10.....11.....

MASS LIST
for analysis

1N-Z	N	Z	A	EL	O	MASS EXCESS (keV)	BINDING ENERGY (keV)	BETA-DECAY ENERGY (keV)	ATOMIC MASS (micro-u)				
0 1	1	0	1	n		8071.323	0.002	0.0	0.0	B-	782.353	0.002	1 008664.923
-1	0	1	1	H		7288.969	0.001	0.0	0.0	B-	*		1 007825.032
0 0	1	1	2	H		13135.720	0.001	2224.573	0.002	B-	*		2 014101.778
0 1	2	1	3	H		14949.794	0.001	8481.821	0.004	B-	18.591	0.001	3 016049.268
-1	1	2	3	He		14931.204	0.001	7718.058	0.002	B-	*		3 016029.310

0	2	3	1	4	H	-n	25927.784	109.545	5575.154	109.545	B-	23502.873	109.545	4	027834.627	11
	0	2	2	4	He		2424.911	0.001	28295.673	0.005	B-	-22895.261	212.132	4	002603.250	
	-2	1	3	4	Li	-p	25320.173	212.132	4618.058	212.132	B-	*		4	027182.329	22
0	3	4	1	5	H	-nn	36833.979	947.692	2740.282	947.692	B-	25447.745	949.010	5	039542.911	101
	1	3	2	5	He	-n	11386.234	50.000	27405.673	50.000	B-	-292.646	70.711	5	012223.628	5
	-1	2	3	5	Li	-p	11678.880	50.000	26330.674	50.000	B-	-26317#	3996#	5	012537.796	5
	-3	1	4	5	Be	x	37996#	3996#	-768#	3996#	B-	*		5	040790#	429
0	4	5	1	6	H	-3n	41863.763	264.906	5781.820	264.906	B-	24269.640	264.908	6	044942.608	28
	2	4	2	6	He		17594.123	1.014	29269.107	1.014	B-	3507.811	0.902	6	018888.072	
	0	3	3	6	Li		14086.312	0.475	31994.564	0.475	B-	-4288.153	5.448	6	015122.281	
	-2	2	4	6	Be	-	18374.465	5.468	26924.058	5.468	B-	*		6	019725.804	
0	3	5	2	7	He	+	26110.264	30.004	28824.289	30.004	B-	11202.591	30.000	7	028030.527	3
	1	4	3	7	Li		14907.673	0.473	39244.526	0.473	B-	-861.815	0.018	7	016004.049	
	-1	3	4	7	Be		15769.489	0.472	37600.358	0.472	B-	-12098.376	70.713	7	016929.246	
	-3	2	5	7	B	+3n	27867.864	70.712	24719.628	70.712	B-	*		7	029917.389	7
0	4	6	2	8	He		31597.983	7.077	31407.892	7.077	B-	10651.789	7.094	8	033921.838	
	2	5	3	8	Li		20946.195	0.488	41277.328	0.488	B-	16004.532	0.488	8	022486.670	
	0	4	4	8	Be		4941.662	0.035	56499.506	0.037	B-	-17979.340	1.107	8	005305.094	
	-2	3	5	8	B		22921.002	1.107	37737.813	1.107	B-	-12173.054	23.094	8	024606.713	
	-4	2	6	8	C	4n	35094.056	23.068	24782.406	23.068	B-	*		8	037675.026	2
0	5	7	2	9	He	++	40818.362	62.471	30258.837	62.471	B-	15864.459	62.499	9	043820.323	6
	3	6	3	9	Li		24953.903	1.946	45340.942	1.946	B-	13606.319	1.931	9	026789.122	
	1	5	4	9	Be		11347.584	0.396	58164.907	0.396	B-	-1068.116	0.899	9	012182.135	
	-1	4	5	9	B	-	12415.701	0.983	56314.438	0.983	B-	-16497.950	2.374	9	013328.806	
	-3	3	6	9	C	-pp	28913.650	2.178	39034.135	2.178	B-	*		9	031040.087	
0	6	8	2	10	He	++	48810.011	70.001	30338.510	70.001	B-	15759.785	71.615	10	052399.713	7
	4	7	3	10	Li	-n	33050.226	15.126	45315.942	15.126	B-	20443.649	15.124	10	035480.884	1
	2	6	4	10	Be		12606.577	0.400	64977.237	0.400	B-	555.816	0.545	10	013533.720	
	0	5	5	10	B		12050.761	0.370	64750.700	0.370	B-	-3647.807	0.091	10	012937.027	
	-2	4	6	10	C	-	15698.568	0.381	60320.539	0.381	B-	-24000#	400#	10	016853.110	
	-4	3	7	10	N	-	39699#	400#	35538#	400#	B-	*		10	042618#	42
0	5	8	3	11	Li		40795.860	27.101	45641.631	27.101	B-	20621.889	27.836	11	043796.166	2
	3	7	4	11	Be	-n	20173.970	6.356	65481.167	6.356	B-	11505.986	6.370	11	021657.653	
	1	6	5	11	B		8667.984	0.420	76204.800	0.421	B-	-1982.547	0.854	11	009305.466	
	-1	5	6	11	C		10650.531	0.952	73439.899	0.952	B-	-14309.989	180.003	11	011433.818	
	-3	4	7	11	N	+3n	24960.520	180.000	58347.557	180.000	B-	*		11	026796.226	19
0	6	9	3	12	Li	x	50096#	997#	44413#	997#	B-	25019#	997#	12	053780#	107
	4	8	4	12	Be	-nn	25076.402	15.005	68650.058	15.005	B-	11707.501	15.071	12	026920.631	1
	2	7	5	12	B	+pn	13368.901	1.400	79575.205	1.400	B-	13368.901	1.400	12	014352.109	
	0	6	6	12	C		0.0	0.0	92161.753	0.014	B-	-17338.083	1.000	12	000000.0	
	-2	5	7	12	N		17338.083	1.000	74041.317	1.000	B-	-14709.755	18.493	12	018613.202	
	-4	4	8	12	O	-pp	32047.838	18.465	58549.209	18.465	B-	*		12	034404.776	1
0	5	9	4	13	Be	IT	33658.445	502.494	68139.338	502.494	B-	17096.236	502.495	13	036133.834	53
	3	8	5	13	B	-nn	16562.209	1.085	84453.220	1.085	B-	13437.198	1.085	13	017780.267	

1	7	6	13	C		3125.011	0.001	97108.065	0.016	B-	-2220.445	0.270	13	003354.838		
-1	6	7	13	N		5345.456	0.270	94105.267	0.270	B-	-17765.279	9.530	13	005738.584		
-3	5	8	13	O	+3n	23110.735	9.526	75557.634	9.526	B-	*		13	024810.400	1	
0	6	10	4	14	Be	x	39882.396	108.061	69986.710	108.062	B-	16218.666	110.124	14	042815.522	11
	4	9	5	14	B	+	23663.730	21.213	85423.022	21.213	B-	20643.837	21.213	14	025404.064	2
	2	8	6	14	C		3019.892	0.004	105284.507	0.019	B-	156.475	0.004	14	003241.988	
	0	7	7	14	N		2863.417	0.001	104658.628	0.016	B-	-5143.039	0.075	14	003074.005	
	-2	6	8	14	O		8006.456	0.075	98733.236	0.076	B-	-25602#	401#	14	008595.285	
	-4	5	9	14	F	x	33608#	401#	72349#	401#	B-	*		14	036080#	43
0	5	10	5	15	B	+3p	28966.936	22.375	88191.140	22.375	B-	19093.792	22.389	15	031097.291	2
	3	9	6	15	C	-n	9873.143	0.800	106502.578	0.800	B-	9771.705	0.800	15	010599.258	
	1	8	7	15	N		101.438	0.001	115491.930	0.019	B-	-2753.950	0.503	15	000108.898	
	-1	7	8	15	O		2855.388	0.503	111955.627	0.503	B-	-13921.614	133.794	15	003065.386	
	-3	6	9	15	F	p4n	16777.001	133.793	97251.660	133.793	B-	*		15	018010.856	14
0	6	11	5	16	B	x	37081.686	60.000	88147.712	60.000	B-	23387.569	60.107	16	039808.836	6
	4	10	6	16	C	-nn	13694.117	3.578	110752.927	3.578	B-	8010.685	4.436	16	014701.243	
	2	9	7	16	N	-n	5683.432	2.622	117981.259	2.623	B-	10420.430	2.622	16	006101.417	
	0	8	8	16	O		-4736.998	0.001	127619.336	0.019	B-	-15417.255	8.321	15	994914.622	
	-2	7	9	16	F	-	10680.257	8.321	111419.727	8.321	B-	-13312.144	22.106	16	011465.730	
	-4	6	10	16	Ne	--	23992.401	20.480	97325.230	20.480	B-	*		16	025756.907	2
0	7	12	5	17	B	x	43716.310	136.069	89584.410	136.069	B-	22679.721	137.175	17	046931.399	14
	5	11	6	17	C	2p-n	21036.589	17.383	111481.778	17.383	B-	13165.771	22.946	17	022583.712	1
	3	10	7	17	N	+p	7870.819	15.021	123865.195	15.021	B-	8679.820	15.020	17	008449.673	1
	1	9	8	17	O		-809.002	0.207	131762.662	0.208	B-	-2760.703	0.323	16	999131.501	
	-1	8	9	17	F		1951.701	0.248	128219.606	0.249	B-	-14533.472	50.001	17	002095.238	
	-3	7	10	17	Ne	+3n	16485.173	50.000	112903.780	50.000	B-	*		17	017697.565	5
0	8	13	5	18	B	x	52322#	801#	89050#	801#	B-	27398#	802#	18	056170#	86
	6	12	6	18	C	++	24924.036	30.010	115665.655	30.010	B-	11806.900	36.056	18	026757.058	3
	4	11	7	18	N	+	13117.136	20.016	126690.201	20.016	B-	13899.200	20.000	18	014081.827	2
	2	10	8	18	O		-782.064	0.793	139807.048	0.793	B-	-1655.496	0.631	17	999160.419	
	0	9	9	18	F		873.431	0.593	137369.199	0.593	B-	-4433.351	1.613	18	000937.667	
	-2	8	10	18	Ne	-pp	5306.782	1.500	132153.495	1.500	B-	-20011#	401#	18	005697.066	
	-4	7	11	18	Na	x	25318#	401#	111360#	401#	B-	*		18	027180#	43
0	9	14	5	19	B	x	59364#	401#	90079#	401#	B-	26531#	415#	19	063730#	43
	7	13	6	19	C	x	32833.383	107.707	115827.630	107.707	B-	16972.934	108.952	19	035248.094	11
	5	12	7	19	N	p-2n	15860.449	16.423	132018.211	16.423	B-	12526.884	16.685	19	017026.896	1
	3	11	8	19	O	-n	3333.565	3.154	143762.741	3.154	B-	4820.970	3.155	19	003578.730	
	1	10	9	19	F		-1487.405	0.070	147801.358	0.074	B-	-3238.464	0.593	18	998403.205	
	-1	9	10	19	Ne	-	1751.059	0.597	143780.541	0.598	B-	-11177.564	12.016	19	001879.839	
	-3	8	11	19	Na	p4n	12928.622	12.001	131820.623	12.001	B-	*		19	013879.450	1
0	8	14	6	20	C	x	37560.063	200.849	119172.273	200.849	B-	15793.571	207.621	20	040322.395	21
	6	13	7	20	N	x	21766.492	52.596	134183.490	52.596	B-	17969.583	52.609	20	023367.295	5
	4	12	8	20	O	-nn	3796.909	1.188	151370.720	1.188	B-	3814.305	1.189	20	004076.150	
	2	11	9	20	F		-17.396	0.084	154402.672	0.087	B-	7024.533	0.084	19	999981.324	

0	10	10	20	Ne		-7041.930	0.002	160644.852	0.024	B-	-13886.789	6.662	19	992440.176		
-2	9	11	20	Na	-	6844.859	6.662	145975.710	6.662	B-	-10725.671	27.810	20	007348.260		
-4	8	12	20	Mg	4n	17570.530	27.001	134467.685	27.001	B-	*		20	018862.744	2	
0	9	15	6	21	C	x	45960#	503#	118844#	503#	B-	20728#	511#	21	049340#	54
7	14	7	21	N	x	25231.909	89.365	138789.396	89.365	B-	17170.173	90.171	21	027087.574	9	
5	13	8	21	O	-3n	8061.736	12.026	155177.216	12.026	B-	8109.316	12.160	21	008654.631	1	
3	12	9	21	F	-nn	-47.580	1.801	162504.178	1.802	B-	5684.140	1.802	20	999948.921		
1	11	10	21	Ne		-5731.720	0.040	167405.965	0.047	B-	-3547.460	0.701	20	993846.744		
-1	10	11	21	Na	-p	-2184.261	0.700	163076.152	0.700	B-	-13095.942	16.431	20	997655.099		
-3	9	12	21	Mg	+3n	10911.681	16.416	149197.857	16.416	B-	-15207#	299#	21	011714.174	1	
-5	8	13	21	Al	x	26119#	298#	133208#	298#	B-	*		21	028040#	32	
0	10	16	6	22	C	x	52583#	904#	120292#	904#	B-	20502#	925#	22	056450#	97
8	15	7	22	N	x	32080.890	195.905	140011.738	195.905	B-	22796.544	204.008	22	034440.259	21	
6	14	8	22	O	-4n	9284.346	56.927	162025.929	56.927	B-	6490.562	58.262	22	009967.157	6	
4	13	9	22	F	+	2793.783	12.401	167734.138	12.401	B-	10818.127	12.399	22	002999.250	1	
2	12	10	22	Ne		-8024.344	0.216	177769.912	0.217	B-	-2842.240	0.416	21	991385.510		
0	11	11	22	Na		-5182.104	0.455	174145.318	0.455	B-	-4785.338	1.416	21	994436.782		
-2	10	12	22	Mg	+nn	-396.766	1.355	168577.626	1.355	B-	-18580#	93#	21	999574.055		
-4	9	13	22	Al	x	18183#	93#	149216#	93#	B-	-13982#	221#	22	019520#	10	
-6	8	14	22	Si	x	32164#	200#	134452#	200#	B-	*		22	034530#	21	
0	9	16	7	23	N	x	37735#	708#	142429#	708#	B-	23118#	715#	23	040510#	76
7	15	8	23	O	x	14616.373	102.174	164765.224	102.174	B-	11286.855	129.485	23	015691.325	10	
5	14	9	23	F	p-2n	3329.518	79.541	175269.726	79.541	B-	8483.159	79.541	23	003574.385	8	
3	13	10	23	Ne	-n	-5153.641	0.247	182970.532	0.248	B-	4375.844	0.197	22	994467.337		
1	12	11	23	Na		-9529.485	0.210	186564.023	0.212	B-	-4056.819	1.243	22	989769.675		
-1	11	12	23	Mg		-5472.666	1.252	181724.850	1.252	B-	-12239.876	25.031	22	994124.850		
-3	10	13	23	Al	p4n	6767.210	25.000	168702.620	25.000	B-	-17005#	197#	23	007264.900	2	
-5	9	14	23	Si	x	23772#	196#	150916#	196#	B-	*		23	025520#	21	
0	10	17	7	24	N	x	47040#	503#	141195#	503#	B-	28066#	590#	24	050500#	54
8	16	8	24	O	x	18974.457	308.471	168478.463	308.471	B-	11429.943	315.269	24	020369.922	33	
6	15	9	24	F	x	7544.514	65.114	179126.053	65.114	B-	13492.033	65.877	24	008099.371	6	
4	14	10	24	Ne	-nn	-5947.519	10.002	191835.733	10.002	B-	2470.081	10.001	23	993615.074	1	
2	13	11	24	Na	-n	-8417.601	0.216	193523.461	0.218	B-	5515.780	0.156	23	990963.332		
0	12	12	24	Mg		-13933.381	0.187	198256.887	0.189	B-	-13878.340	3.934	23	985041.898		
-2	11	13	24	Al	-	-55.041	3.938	183596.194	3.938	B-	-10809.800	19.865	23	999940.911		
-4	10	14	24	Si	--	10754.759	19.473	172004.041	19.473	B-	-21242#	503#	24	011545.711	2	
-6	9	15	24	P	x	31997#	503#	149980#	503#	B-	*		24	034350#	54	
0	9	17	8	25	O	x	27144#	373#	168381#	373#	B-	15877#	380#	25	029140#	40
7	16	9	25	F	x	11266.384	76.705	183475.506	76.705	B-	13325.079	88.790	25	012094.963	8	
5	15	10	25	Ne	2p-n	-2058.696	44.722	196018.232	44.722	B-	7298.763	44.738	24	997789.899	4	
3	14	11	25	Na		-9357.459	1.217	202534.642	1.217	B-	3835.267	1.208	24	989954.352		
1	13	12	25	Mg		-13192.726	0.190	205587.555	0.192	B-	-4276.983	0.667	24	985837.023		
-1	12	13	25	Al	-p	-8915.742	0.691	200528.218	0.692	B-	-12741.052	10.024	24	990428.555		
-3	11	14	25	Si	+3n	3825.310	10.000	187004.813	10.000	B-	-15047#	196#	25	004106.640	1	

-5	10	15	25	P	x	18872#	196#	171176#	196#	B-	*	25	020260#	21		
0	10	18	8	26	O	x	35164#	428#	168432#	428#	B-	16876#	446#	26	037750#	46
	8	17	9	26	F	x	18288.165	123.965	184525.048	123.965	B-	17858.282	135.484	26	019633.157	13
	6	16	10	26	Ne	++	429.882	54.667	201600.977	54.667	B-	7332.347	56.523	26	000461.498	5
	4	15	11	26	Na		-6902.465	14.368	208150.970	14.368	B-	9312.012	14.367	25	992589.898	1
	2	14	12	26	Mg		-16214.476	0.193	216680.629	0.195	B-	-4004.137	0.059	25	982593.040	
	0	13	13	26	Al		-12210.339	0.197	211894.138	0.199	B-	-5065.721	3.006	25	986891.659	
	-2	12	14	26	Si	+nn	-7144.618	3.000	206046.063	3.000	B-	-18118#	196#	25	992329.935	
	-4	11	15	26	P	x	10973#	196#	187146#	196#	B-	-14997#	357#	26	011780#	21
	-6	10	16	26	S	x	25970#	298#	171367#	298#	B-	*		26	027880#	32
0	9	18	9	27	F	x	25050.028	418.168	185834.508	418.168	B-	17956.515	428.020	27	026892.316	44
	7	17	10	27	Ne	x	7093.512	91.303	203008.670	91.303	B-	12674.370	98.965	27	007615.200	9
	5	16	11	27	Na		-5580.857	38.180	214900.686	38.180	B-	9005.645	38.179	26	994008.702	4
	3	15	12	27	Mg	-n	-14586.503	0.197	223123.978	0.200	B-	2610.326	0.168	26	984340.742	
	1	14	13	27	Al		-17196.829	0.126	224951.950	0.130	B-	-4812.398	0.096	26	981538.441	
	-1	13	14	27	Si	-	-12384.431	0.159	219357.199	0.162	B-	-11631.453	35.001	26	986704.764	
	-3	12	15	27	P	p4n	-752.978	35.000	206943.392	35.000	B-	-18260#	200#	26	999191.645	3
	-5	11	16	27	S	-	17507#	203#	187901#	203#	B-	*		27	018795#	21
0	10	19	9	28	F	x	33226#	512#	185729#	512#	B-	21948#	525#	28	035670#	55
	8	18	10	28	Ne	x	11278.595	112.404	206894.910	112.404	B-	12312.171	135.542	28	012108.072	12
	6	17	11	28	Na		-1033.576	75.743	218424.727	75.743	B-	13985.176	75.770	27	998890.410	8
	4	16	12	28	Mg	+	-15018.752	2.005	231627.550	2.005	B-	1831.800	2.000	27	983876.703	
	2	15	13	28	Al	-n	-16850.552	0.138	232676.997	0.142	B-	4642.241	0.138	27	981910.184	
	0	14	14	28	Si		-21492.793	0.002	236536.884	0.034	B-	-14331.775	3.750	27	976926.533	
	-2	13	15	28	P	-	-7161.018	3.750	221422.755	3.750	B-	-11234.125	160.044	27	992312.330	
	-4	12	16	28	S	--	4073.107	160.000	209406.277	160.000	B-	-22484#	528#	28	004372.661	17
	-6	11	17	28	Cl	x	26557#	503#	186140#	503#	B-	*		28	028510#	54
0	11	20	9	29	F	x	40296#	578#	186731#	578#	B-	22276#	651#	29	043260#	62
	9	19	10	29	Ne	x	18020.589	301.522	208224.239	301.522	B-	15401.879	314.367	29	019345.902	32
	7	18	11	29	Na		2618.710	88.944	222843.764	88.944	B-	13279.896	93.422	29	002811.301	9
	5	17	12	29	Mg	-3n	-10661.187	28.579	235341.307	28.579	B-	7554.317	28.604	28	988554.743	3
	3	16	13	29	Al	-nn	-18215.504	1.207	242113.271	1.207	B-	3679.521	1.207	28	980444.848	
	1	15	14	29	Si	-n	-21895.025	0.028	245010.439	0.046	B-	-4943.119	0.724	28	976494.719	
	-1	14	15	29	P	-p	-16951.907	0.724	239284.967	0.725	B-	-13793.029	50.005	28	981801.376	
	-3	13	16	29	S	+3n	-3158.878	50.000	224709.585	50.000	B-	-16302#	202#	28	996608.805	5
	-5	12	17	29	Cl	x	13143#	196#	207625#	196#	B-	*		29	014110#	21
0	10	20	10	30	Ne	x	22236.621	823.441	212079.529	823.441	B-	13642.205	828.716	30	023872.000	88
	8	19	11	30	Na		8594.416	93.355	224939.381	93.355	B-	17476.649	111.679	30	009226.487	10
	6	18	12	30	Mg		-8882.233	66.860	241633.676	66.860	B-	6990.139	68.319	29	990464.529	7
	4	17	13	30	Al	+	-15872.372	14.045	247841.462	14.045	B-	8560.509	14.045	29	982960.304	1
	2	16	14	30	Si	-n	-24432.881	0.042	255619.618	0.057	B-	-4232.325	0.401	29	973770.218	
	0	15	15	30	P	-p	-20200.556	0.401	250604.939	0.403	B-	-6137.750	3.029	29	978313.807	
	-2	14	16	30	S	+nn	-14062.806	3.002	243684.835	3.002	B-	-18506#	196#	29	984902.954	
	-4	13	17	30	Cl	x	4443#	196#	224396#	196#	B-	-15640#	357#	30	004770#	21

-6	12	18	30	Ar	x	20083#	298#	207974#	298#	B-	*	30	021560#	32		
0	11	21	10	31	Ne	x	30842#	904#	211546#	904#	B-	18178#	918#	31	033110#	97
	9	20	11	31	Na	x	12663.760	164.595	228941.360	164.595	B-	15878.849	181.173	31	013595.108	17
	7	19	12	31	Mg	x	-3215.089	75.711	244037.856	75.711	B-	11739.092	78.396	30	996548.459	8
	5	18	13	31	Al	p-2n	-14954.181	20.343	254994.594	20.343	B-	7994.777	20.343	30	983946.023	2
	3	17	14	31	Si	-n	-22948.958	0.065	262207.017	0.077	B-	1492.032	0.195	30	975363.275	
	1	16	15	31	P		-24440.991	0.183	262916.697	0.188	B-	-5396.059	1.514	30	973761.512	
	-1	15	16	31	S	+n	-19044.932	1.504	256738.284	1.505	B-	-11980.495	50.023	30	979554.421	
	-3	14	17	31	Cl	p4n	-7064.436	50.001	243975.435	50.001	B-	-18360#	200#	30	992416.014	5
	-5	13	18	31	Ar	-	11296#	206#	224833#	206#	B-	*		31	012126#	22
0	12	22	10	32	Ne	x	37176#	876#	213283#	876#	B-	18872#	999#	32	039910#	94
	10	21	11	32	Na	x	18303.661	481.464	231372.782	481.464	B-	19099.260	490.885	32	019649.792	51
	8	20	12	32	Mg	x	-795.599	95.708	249689.688	95.708	B-	10266.469	129.215	31	999145.889	10
	6	19	13	32	Al	x	-11062.068	86.813	259173.804	86.813	B-	13018.791	86.840	31	988124.379	9
	4	18	14	32	Si	-nn	-24080.859	2.164	271410.242	2.165	B-	224.458	2.172	31	974148.129	
	2	17	15	32	P	-n	-24305.318	0.188	270852.346	0.192	B-	1710.663	0.209	31	973907.163	
	0	16	16	32	S		-26015.981	0.112	271780.656	0.120	B-	-12685.287	6.782	31	972070.690	
	-2	15	17	32	Cl	-	-13330.694	6.782	258313.016	6.783	B-	-11151.613	50.458	31	985688.908	
	-4	14	18	32	Ar	--	-2179.081	50.000	246379.049	50.000	B-	-22597#	505#	31	997660.660	5
	-6	13	19	32	K	x	20418#	503#	222999#	503#	B-	*		32	021920#	54
0	11	22	11	33	Na	x	25509.891	1491.322	232237.874	1491.322	B-	20305.658	1498.443	33	027386.000	160
	9	21	12	33	Mg	x	5204.233	145.915	251761.179	145.915	B-	13709.156	159.922	33	005586.975	15
	7	20	13	33	Al	x	-8504.923	65.451	264687.982	65.452	B-	11987.457	67.329	32	990869.587	7
	5	19	14	33	Si	+n2p	-20492.381	15.791	275893.086	15.791	B-	5845.347	15.829	32	978000.520	1
	3	18	15	33	P	+	-26337.727	1.095	280956.079	1.096	B-	248.508	1.090	32	971725.281	
	1	17	16	33	S		-26586.235	0.109	280422.233	0.118	B-	-5582.724	0.501	32	971458.497	
	-1	16	17	33	Cl	-p	-21003.512	0.512	274057.156	0.514	B-	-11622.175	30.005	32	977451.798	
	-3	15	18	33	Ar	+3n	-9381.336	30.001	261652.628	30.001	B-	-16144#	198#	32	989928.719	3
	-5	14	19	33	K	x	6763#	196#	244726#	196#	B-	*		33	007260#	21
0	12	23	11	34	Na	x	32509#	1053#	233310#	1053#	B-	24058#	1085#	34	034900#	113
	10	22	12	34	Mg	x	8450.922	262.661	256585.813	262.661	B-	11313.165	277.739	34	009072.440	28
	8	21	13	34	Al	x	-2862.243	90.268	267116.624	90.268	B-	17094.319	91.365	33	996927.255	9
	6	20	14	34	Si	+pp	-19956.562	14.118	283428.590	14.118	B-	4600.987	14.976	33	978575.745	1
	4	19	15	34	P	+pn	-24557.549	5.006	287247.223	5.006	B-	5374.301	5.006	33	973636.381	
	2	18	16	34	S		-29931.850	0.098	291839.171	0.108	B-	-5491.284	0.071	33	967866.831	
	0	17	17	34	Cl	-p	-24440.566	0.120	285565.534	0.128	B-	-6062.302	3.013	33	973761.967	
	-2	16	18	34	Ar	+nn	-18378.264	3.011	278720.878	3.011	B-	-16897#	298#	33	980270.118	
	-4	15	19	34	K	x	-1481#	298#	261041#	298#	B-	-14634#	422#	33	998410#	32
	-6	14	20	34	Ca	x	13153#	298#	245625#	298#	B-	*		34	014120#	32
0	13	24	11	35	Na	x	41153#	1546#	232737#	1546#	B-	24862#	1607#	35	044180#	166
	11	23	12	35	Mg	x	16292#	438#	256816#	438#	B-	16350#	460#	35	017490#	47
	9	22	13	35	Al	x	-58.079	140.929	272383.783	140.929	B-	14301.683	146.070	34	999937.650	15
	7	21	14	35	Si	2p-n	-14359.762	38.412	285903.113	38.412	B-	10497.851	38.456	34	984584.158	4
	5	20	15	35	P	+p	-24857.613	1.872	295618.611	1.872	B-	3988.758	1.874	34	973314.249	

3	19	16	35	S		-28846.371	0.092	298825.015	0.103	B-	167.141	0.084	34	969032.140		
1	18	17	35	Cl		-29013.512	0.039	298209.803	0.058	B-	-5965.305	0.769	34	968852.707		
-1	17	18	35	Ar	-	-23048.208	0.770	291462.144	0.771	B-	-11881.101	20.017	34	975256.726		
-3	16	19	35	K	p4n	-11167.107	20.002	278798.690	20.002	B-	-15606#	72#	34	988011.615	2	
-5	15	20	35	Ca	x	4439#	69#	262411#	69#	B-	*		35	004765#	7	
0	12	24	12	36	Mg	x	20912#	904#	260267#	904#	B-	14996#	943#	36	022450#	97
10	23	13	36	Al	x	5916.384	270.117	274480.643	270.117	B-	18317.023	289.126	36	006351.501	28	
8	22	14	36	Si	x	-12400.639	103.104	292015.313	103.104	B-	7850.201	103.935	35	986687.363	11	
6	21	15	36	P	+	-20250.840	13.114	299083.160	13.115	B-	10413.118	13.112	35	978259.824	1	
4	20	16	36	S	+p	-30663.958	0.235	308713.925	0.239	B-	-1142.072	0.247	35	967080.880		
2	19	17	36	Cl		-29521.886	0.077	306789.499	0.089	B-	708.554	0.258	35	968306.945		
0	18	18	36	Ar		-30230.439	0.254	306715.699	0.258	B-	-12805.361	7.781	35	967546.282		
-2	17	19	36	K	-	-17425.078	7.785	293127.984	7.785	B-	-10985.879	40.752	35	981293.405		
-4	16	20	36	Ca	4n	-6439.199	40.001	281359.752	40.001	B-	-20337#	505#	35	993087.234	4	
-6	15	21	36	Sc	x	13898#	503#	260240#	503#	B-	*		36	014920#	54	
0	13	25	12	37	Mg	x	29100#	904#	260151#	904#	B-	19496#	1052#	37	031240#	97
11	24	13	37	Al	x	9603.702	539.335	278864.648	539.335	B-	16127.894	553.717	37	010310.000	57	
9	23	14	37	Si	x	-6524.192	125.381	294210.189	125.381	B-	12470.516	130.998	36	992995.990	13	
7	22	15	37	P	p-2n	-18994.708	37.948	305898.351	37.948	B-	7901.510	37.947	36	979608.338	4	
5	21	16	37	S	-n	-26896.218	0.251	313017.507	0.256	B-	4865.301	0.246	36	971125.716		
3	20	17	37	Cl		-31761.519	0.048	317100.455	0.067	B-	-813.485	0.303	36	965902.600		
1	19	18	37	Ar		-30948.034	0.305	315504.616	0.309	B-	-6148.793	0.374	36	966775.912		
-1	18	19	37	K	-p	-24799.240	0.270	308573.470	0.273	B-	-11638.634	22.364	36	973376.915		
-3	17	20	37	Ca	+3n	-13160.607	22.363	296152.482	22.363	B-	-16002#	299#	36	985871.505	2	
-5	16	21	37	Sc	x	2841#	298#	279368#	298#	B-	*		37	003050#	32	
0	12	25	13	38	Al	x	15742#	559#	280797#	559#	B-	19487#	621#	38	016900#	60
10	24	14	38	Si	x	-3744.605	270.133	299501.924	270.133	B-	10721.494	304.130	37	995980.000	29	
8	23	15	38	P	x	-14466.100	139.724	309441.065	139.724	B-	12394.976	139.908	37	984470.000	15	
6	22	16	38	S	+	-26861.076	7.172	321053.688	7.172	B-	2936.900	7.171	37	971163.443		
4	21	17	38	Cl	-n	-29797.976	0.111	323208.235	0.121	B-	4916.787	0.503	37	968010.550		
2	20	18	38	Ar		-34714.763	0.491	327342.669	0.494	B-	-5913.072	0.643	37	962732.161		
0	19	19	38	K		-28801.691	0.724	320647.243	0.725	B-	-6742.647	4.607	37	969080.107		
-2	18	20	38	Ca	+nn	-22059.044	4.561	313122.243	4.561	B-	-17122#	298#	37	976318.637		
-4	17	21	38	Sc	x	-4937#	298#	295218#	298#	B-	-14038#	390#	37	994700#	32	
-6	16	22	38	Ti	x	9101#	252#	280398#	252#	B-	*		38	009770#	27	
0	13	26	13	39	Al	x	20400#	596#	284211#	596#	B-	18257#	718#	39	021900#	64
11	25	14	39	Si	x	2142#	401#	301686#	401#	B-	14792#	427#	39	002300#	43	
9	24	15	39	P	x	-12649.687	149.039	315695.975	149.039	B-	10511.652	157.203	38	986420.000	16	
7	23	16	39	S	2p-n	-23161.339	50.000	325425.274	50.000	B-	6639.314	50.030	38	975135.275	5	
5	22	17	39	Cl		-29800.652	1.736	331282.234	1.737	B-	3441.184	5.300	38	968007.677		
3	21	18	39	Ar	+	-33241.836	5.008	333941.065	5.008	B-	565.000	5.000	38	964313.413		
1	20	19	39	K		-33806.836	0.280	333723.711	0.285	B-	-6530.581	1.766	38	963706.861		
-1	19	20	39	Ca	-	-27276.256	1.788	326410.777	1.788	B-	-13108.242	24.065	38	970717.729		
-3	18	21	39	Sc	2n-p	-14168.014	24.002	312520.181	24.002	B-	-15400#	100#	38	984790.009	2	

-5	17	22	39	Ti	-	1232#	103#	296338#	103#	B-	*	39	001323#	11		
0	12	26	14	Si	x	5403#	503#	306497#	503#	B-	13740#	540#	40	005800#	54	
10	25	15	40	P	x	-8336.870	195.614	319454.481	195.614	B-	14512.674	304.130	39	991050.000	21	
8	24	16	40	S	x	-22849.544	232.873	333184.802	232.873	B-	4708.184	235.071	39	975470.000	25	
6	23	17	40	Cl	+	-27557.728	32.066	337110.633	32.066	B-	7482.161	32.066	39	970415.555	3	
4	22	18	40	Ar		-35039.890	0.004	343810.441	0.052	B-	-1504.873	0.271	39	962383.123		
2	21	19	40	K		-33535.016	0.271	341523.214	0.276	B-	1311.093	0.118	39	963998.672		
0	20	20	40	Ca		-34846.110	0.293	342051.954	0.297	B-	-14319.724	4.096	39	962591.155		
-2	19	21	40	Sc	-	-20526.386	4.106	326949.876	4.107	B-	-11676.176	160.052	39	977964.014		
-4	18	22	40	Ti	--	-8850.210	160.000	314491.347	160.000	B-	-19180#	528#	39	990498.907	17	
-6	17	23	40	V	x	10330#	503#	294529#	503#	B-	*		40	011090#	54	
0	13	27	14	Si	x	11830#	596#	308141#	596#	B-	16674#	757#	41	012700#	64	
11	26	15	41	P	x	-4843.768	465.747	324032.702	465.747	B-	13758.164	512.660	40	994800.000	50	
9	25	16	41	S	x	-18601.932	214.244	337008.513	214.244	B-	8737.215	223.825	40	980030.000	23	
7	24	17	41	Cl	x	-27339.148	64.786	344963.375	64.786	B-	5728.114	64.789	40	970650.212	6	
5	23	18	41	Ar		-33067.261	0.653	349909.135	0.655	B-	2491.611	0.669	40	964500.828		
3	22	19	41	K		-35558.872	0.261	351618.393	0.266	B-	-421.386	0.278	40	961825.972		
1	21	20	41	Ca		-35137.487	0.374	350414.654	0.377	B-	-6495.276	0.272	40	962278.349		
-1	20	21	41	Sc		-28642.211	0.305	343137.024	0.309	B-	-12929#	35#	40	969251.316		
-3	19	22	41	Ti	x	-15713#	35#	329426#	35#	B-	-15471#	254#	40	983131#	3	
-5	18	23	41	V	x	-242#	252#	313172#	252#	B-	*		40	999740#	27	
0	14	28	14	Si	x	14997#	699#	313046#	699#	B-	14913#	861#	42	016100#	75	
12	27	15	42	P	x	84#	503#	327176#	503#	B-	17326#	599#	42	000090#	54	
10	26	16	42	S	x	-17241.951	326.023	343719.855	326.023	B-	7745.377	343.825	41	981490.000	35	
8	25	17	42	Cl	x	-24987.328	109.201	350682.878	109.201	B-	9434.736	116.296	41	973174.994	11	
6	24	18	42	Ar	-nn	-34422.065	40.000	359335.261	40.000	B-	599.255	40.001	41	963046.386	4	
4	23	19	42	K	-n	-35021.319	0.301	359152.163	0.306	B-	3525.445	0.321	41	962403.059		
2	22	20	42	Ca		-38546.765	0.378	361895.254	0.382	B-	-6425.839	0.128	41	958618.337		
0	21	21	42	Sc		-32120.925	0.393	354687.062	0.396	B-	-7000.047	5.455	41	965516.761		
-2	20	22	42	Ti	-pp	-25120.878	5.456	346904.661	5.456	B-	-16952#	196#	41	973031.622		
-4	19	23	42	V	x	-8169#	196#	329171#	196#	B-	-14159#	357#	41	991230#	21	
-6	18	24	42	Cr	x	5990#	298#	314230#	298#	B-	*		42	006430#	32	
0	13	28	15	43	P	x	3083#	503#	332248#	503#	B-	15565#	978#	43	003310#	54
11	27	16	43	S	x	-12482.018	838.344	347031.244	838.344	B-	11547.371	853.806	42	986600.000	90	
9	26	17	43	Cl	x	-24029.389	161.753	357796.262	161.753	B-	7948.142	176.298	42	974203.385	17	
7	25	18	43	Ar	2p3n	-31977.531	70.123	364962.051	70.123	B-	4615.511	70.692	42	965670.701	7	
5	24	19	43	K	+	-36593.042	8.957	368795.208	8.957	B-	1815.400	8.944	42	960715.746		
3	23	20	43	Ca		-38408.442	0.482	369828.254	0.485	B-	-2220.819	1.883	42	958766.833		
1	22	21	43	Sc	-p	-36187.623	1.895	366825.082	1.896	B-	-6867.310	7.150	42	961150.980		
-1	21	22	43	Ti	-n2p	-29320.314	6.906	359175.419	6.906	B-	-11296#	233#	42	968523.342		
-3	20	23	43	V	x	-18024#	233#	347097#	233#	B-	-15888#	248#	42	980650#	25	
-5	19	24	43	Cr	x	-2136#	87#	330426#	87#	B-	*		42	997707#	9	
0	14	29	15	44	P	x	9203#	699#	334200#	699#	B-	20083#	861#	44	009880#	75
12	28	16	44	S	x	-10880#	503#	353500#	503#	B-	9111#	550#	43	988320#	54	

10	27	17	44	Cl	x	-19991.058	221.299	361829.254	221.299	B-	12270.981	222.240	43	978538.712	23
8	26	18	44	Ar	+a	-32262.039	20.426	373317.882	20.426	B-	3548.175	41.200	43	965365.269	2
6	25	19	44	K	+	-35810.214	35.787	376083.703	35.787	B-	5658.873	35.777	43	961556.146	3
4	24	20	44	Ca		-41469.087	0.851	380960.223	0.852	B-	-3653.276	1.890	43	955481.094	
2	23	21	44	Sc	-p	-37815.811	1.802	376524.593	1.803	B-	-267.513	1.915	43	959403.048	
0	22	22	44	Ti	-a	-37548.299	0.759	375474.727	0.761	B-	-13702#	84#	43	959690.235	
-2	21	23	44	V	x	-23846#	84#	360990#	84#	B-	-10312#	155#	43	974400#	9
-4	20	24	44	Cr	x	-13535#	130#	349896#	130#	B-	-19934#	520#	43	985470#	14
-6	19	25	44	Mn	x	6399#	503#	329180#	503#	B-	*		44	006870#	54
0	15	30	45	P	x	14103#	801#	337371#	801#	B-	18928#	999#	45	015140#	86
13	29	16	45	S	x	-4825#	596#	355517#	596#	B-	14084#	883#	44	994820#	64
11	28	17	45	Cl	x	-18909.325	652.046	368818.844	652.046	B-	10810.006	654.814	44	979700.000	70
9	27	18	45	Ar	+n2p	-29719.331	60.143	378846.496	60.143	B-	6888.696	60.969	44	968094.979	6
7	26	19	45	K	+p	-36608.028	10.276	384952.839	10.276	B-	4204.502	10.286	44	960699.658	1
5	25	20	45	Ca		-40812.530	0.896	388374.988	0.897	B-	256.809	0.940	44	956185.938	
3	24	21	45	Sc		-41069.338	1.090	387849.443	1.091	B-	-2062.427	0.506	44	955910.243	
1	23	22	45	Ti	-	-39006.912	1.202	385004.663	1.203	B-	-7133.321	17.073	44	958124.349	
-1	22	23	45	V	p4n	-31873.591	17.051	377088.989	17.052	B-	-12461#	104#	44	965782.286	1
-3	21	24	45	Cr	x	-19412#	102#	363845#	102#	B-	-14298#	315#	44	979160#	11
-5	20	25	45	Mn	x	-5114#	298#	348765#	298#	B-	-18676#	499#	44	994510#	32
-7	19	26	45	Fe	x	13563#	401#	329306#	401#	B-	*		45	014560#	43
0	16	31	46	P	x	22197#	904#	337348#	904#	B-	22598#	1142#	46	023830#	97
14	30	16	46	S	x	-401#	699#	359164#	699#	B-	14392#	861#	45	999570#	75
12	29	17	46	Cl	x	-14792#	503#	372773#	503#	B-	14929#	505#	45	984120#	54
10	28	18	46	Ar	+pp	-29720.739	40.898	386919.227	40.898	B-	5698.194	43.364	45	968093.467	4
8	27	19	46	K	+pn	-35418.933	15.563	391835.068	15.563	B-	7715.977	15.565	45	961976.203	1
6	26	20	46	Ca		-43134.911	2.365	398768.692	2.366	B-	-1376.274	2.401	45	953692.759	
4	25	21	46	Sc	-n	-41758.637	1.096	396610.064	1.097	B-	2366.702	0.674	45	955170.250	
2	24	22	46	Ti		-44125.338	1.116	398194.413	1.118	B-	-7051.409	1.000	45	952629.491	
0	23	23	46	V	-	-37073.929	1.499	390360.650	1.500	B-	-7603.000	20.000	45	960199.491	
-2	22	24	46	Cr	-	-29470.929	20.056	381975.297	20.056	B-	-17101#	114#	45	968361.649	2
-4	21	25	46	Mn	x	-12370#	112#	364092#	112#	B-	-13125#	371#	45	986720#	12
-6	20	26	46	Fe	x	755#	354#	350185#	354#	B-	*		46	000810#	38
0	15	31	47	S	x	7098#	801#	359737#	801#	B-	18322#	999#	47	007620#	86
13	30	17	47	Cl	x	-11225#	596#	377277#	596#	B-	14684#	604#	46	987950#	64
11	29	18	47	Ar	2p-n	-25908.348	100.086	391178.159	100.086	B-	9788.539	100.233	46	972186.238	10
9	28	19	47	K	+p	-35696.887	7.997	400184.345	7.997	B-	6642.807	7.988	46	961677.807	
7	27	20	47	Ca		-42339.694	2.322	406044.798	2.323	B-	1991.936	1.174	46	954546.459	
5	26	21	47	Sc		-44331.631	2.095	407254.381	2.096	B-	600.101	1.878	46	952408.027	
3	25	22	47	Ti		-44931.732	0.977	407072.129	0.979	B-	-2927.802	0.968	46	951763.792	
1	24	23	47	V	-p	-42003.929	1.119	403361.973	1.120	B-	-7451.573	14.075	46	954906.918	
-1	23	24	47	Cr	+3n	-34552.357	14.062	395128.047	14.063	B-	-12290#	159#	46	962906.512	1
-3	22	25	47	Mn	x	-22263#	158#	382056#	158#	B-	-15640#	305#	46	976100#	17
-5	21	26	47	Fe	x	-6623#	261#	365634#	261#	B-	*		46	992890#	28

0	16	32	16	48	S	x	12100#	904#	362806#	904#	B-	16897#	1142#	48	012990#	97
	14	31	17	48	Cl	x	-4797#	699#	378921#	699#	B-	18425#	760#	47	994850#	75
	12	30	18	48	Ar	x	-23222#	298#	396563#	298#	B-	8902#	299#	47	975070#	32
	10	29	19	48	K	+	-32124.479	24.117	404683.259	24.117	B-	12090.263	23.757	47	965512.946	2
	8	28	20	48	Ca		-44214.742	4.147	415991.169	4.148	B-	278.070	5.041	47	952533.512	
	6	27	21	48	Sc		-44492.812	5.285	415486.886	5.286	B-	3994.188	5.197	47	952234.991	
	4	26	22	48	Ti		-48487.000	0.977	418698.720	0.979	B-	-4012.342	2.415	47	947947.053	
	2	25	23	48	V	-	-44474.659	2.605	413904.025	2.605	B-	-1659.346	7.764	47	952254.480	
	0	24	24	48	Cr		-42815.313	7.404	411462.326	7.404	B-	-13818#	71#	47	954035.861	
	-2	23	25	48	Mn	x	-28997#	71#	396862#	71#	B-	-10889#	125#	47	968870#	7
	-4	22	26	48	Fe	x	-18108#	102#	385191#	102#	B-	-19748#	413#	47	980560#	11
	-6	21	27	48	Co	x	1639#	401#	364661#	401#	B-	*		48	001760#	43
0	17	33	16	49	S	x	20502#	997#	362475#	997#	B-	20605#	1279#	49	022010#	107
	15	32	17	49	Cl	x	-102#	801#	382297#	801#	B-	16497#	946#	48	999890#	86
	13	31	18	49	Ar	x	-16599#	503#	398012#	503#	B-	13721#	508#	48	982180#	54
	11	30	19	49	K	+	-30320.047	70.124	410950.150	70.124	B-	10970.000	70.000	48	967450.084	7
	9	29	20	49	Ca	-n	-41290.047	4.164	421137.796	4.165	B-	5262.230	3.252	48	955673.302	
	7	28	21	49	Sc		-46552.277	4.065	425617.673	4.066	B-	2005.764	3.950	48	950024.065	
	5	27	22	49	Ti		-48558.040	0.978	426841.083	0.980	B-	-601.861	0.832	48	947870.789	
	3	26	23	49	V	-	-47956.179	1.284	425456.868	1.285	B-	-2630.745	2.626	48	948516.914	
	1	25	24	49	Cr	+n	-45325.434	2.567	422043.769	2.568	B-	-7714.893	24.121	48	951341.135	
	-1	24	25	49	Mn	p4n	-37610.541	24.037	413546.523	24.037	B-	-13028#	160#	48	959623.415	2
	-3	23	26	49	Fe	x	-24582#	158#	399736#	158#	B-	-15006#	305#	48	973610#	17
	-5	22	27	49	Co	x	-9576#	261#	383947#	261#	B-	*		48	989720#	28
0	16	33	17	50	Cl	x	7200#	904#	383066#	904#	B-	20297#	1142#	50	007730#	97
	14	32	18	50	Ar	x	-13097#	699#	402581#	699#	B-	12256#	752#	49	985940#	75
	12	31	19	50	K	+	-25352.625	278.440	414054.051	278.440	B-	14218.831	278.285	49	972782.832	29
	10	30	20	50	Ca	-nn	-39571.456	9.297	427490.528	9.297	B-	4966.053	17.153	49	957518.286	
	8	29	21	50	Sc	-pn	-44537.508	15.563	431674.227	15.563	B-	6888.341	15.534	49	952187.008	1
	6	28	22	50	Ti		-51425.849	0.978	437780.214	0.980	B-	-2208.314	1.133	49	944792.069	
	4	27	23	50	V	+n	-49217.535	1.309	434789.547	1.310	B-	1036.925	0.388	49	947162.792	
	2	26	24	50	Cr		-50254.460	1.323	435044.118	1.325	B-	-7632.989	0.279	49	946049.607	
	0	25	25	50	Mn		-42621.470	1.352	426628.776	1.354	B-	-8149.972	60.009	49	954243.960	
	-2	24	26	50	Fe	4n	-34471.499	60.015	417696.450	60.015	B-	-17276#	178#	49	962993.316	6
	-4	23	27	50	Co	x	-17195#	168#	399638#	168#	B-	-13404#	310#	49	981540#	18
	-6	22	28	50	Ni	x	-3791#	261#	385451#	261#	B-	*		49	995930#	28
0	17	34	17	51	Cl	x	12603#	997#	385734#	997#	B-	18900#	1217#	51	013530#	107
	15	33	18	51	Ar	x	-6297#	699#	403852#	699#	B-	15705#	861#	50	993240#	75
	13	32	19	51	K	x	-22002#	503#	418775#	503#	B-	13885#	511#	50	976380#	54
	11	31	20	51	Ca		-35886.511	90.963	431876.906	90.963	B-	7332.289	93.054	50	961474.238	9
	9	30	21	51	Sc	-p2n	-43218.800	20.426	438426.842	20.426	B-	6508.052	20.424	50	953602.700	2
	7	29	22	51	Ti	-n	-49726.852	1.337	444152.541	1.338	B-	2470.641	1.451	50	946616.017	
	5	28	23	51	V		-52197.493	1.306	445840.828	1.308	B-	-752.733	0.239	50	943963.675	
	3	27	24	51	Cr		-51444.760	1.313	444305.741	1.315	B-	-3207.804	0.487	50	944771.767	

1	26	25	51	Mn		-48236.956	1.339	440315.584	1.340	B-	-8019.649	15.030	50	948215.487		
-1	25	26	51	Fe	+3n	-40217.307	15.059	431513.581	15.059	B-	-12943#	150#	50	956824.936	1	
-3	24	27	51	Co	x	-27274#	149#	417788#	149#	B-	-15835#	300#	50	970720#	16	
-5	23	28	51	Ni	x	-11439#	261#	401170#	261#	B-	*		50	987720#	28	
0	16	34	18	52	Ar	x	-1705#	904#	407331#	904#	B-	14494#	1142#	51	998170#	97
14	33	19	52	K	x	-16199#	699#	421043#	699#	B-	16310#	840#	51	982610#	75	
12	32	20	52	Ca	x	-32509.136	465.747	436570.854	465.747	B-	7871.123	520.721	51	965100.000	50	
10	31	21	52	Sc	x	-40380.259	232.873	443659.623	232.873	B-	9083.765	232.983	51	956650.000	25	
8	30	22	52	Ti	-nn	-49464.024	7.138	451961.035	7.139	B-	1973.385	7.164	51	946898.175		
6	29	23	52	V	-n	-51437.409	1.326	453152.067	1.328	B-	3975.387	1.142	51	944779.658		
4	28	24	52	Cr		-55412.797	1.407	456345.101	1.409	B-	-4711.659	2.020	51	940511.904		
2	27	25	52	Mn	+pn	-50701.137	2.359	450851.088	2.359	B-	-2372.000	10.000	51	945570.079		
0	26	26	52	Fe	-	-48329.137	10.274	447696.735	10.275	B-	-14413#	66#	51	948116.526	1	
-2	25	27	52	Co	x	-33916#	65#	432501#	65#	B-	-11262#	106#	51	963590#	7	
-4	24	28	52	Ni	x	-22654#	84#	420457#	84#	B-	-20027#	274#	51	975680#	9	
-6	23	29	52	Cu	x	-2627#	261#	399647#	261#	B-	*		51	997180#	28	
0	17	35	18	53	Ar	x	5800#	1000#	407897#	1000#	B-	17798#	1220#	53	006227#	107
15	34	19	53	K	x	-11998#	699#	424913#	699#	B-	15901#	861#	52	987120#	75	
13	33	20	53	Ca	x	-27898#	503#	440031#	503#	B-	10069#	585#	52	970050#	54	
11	32	21	53	Sc	x	-37968#	298#	449318#	298#	B-	8857#	314#	52	959240#	32	
9	31	22	53	Ti	+	-46824.604	100.058	457392.938	100.058	B-	5020.000	100.000	52	949731.709	10	
7	30	23	53	V	+p	-51844.604	3.398	461630.585	3.398	B-	3436.034	3.110	52	944342.517		
5	29	24	53	Cr		-55280.638	1.403	464284.265	1.404	B-	-597.013	0.442	52	940653.781		
3	28	25	53	Mn		-54683.625	1.438	462904.899	1.439	B-	-3742.352	1.741	52	941294.702		
1	27	26	53	Fe	+n	-50941.273	2.106	458380.194	2.107	B-	-8302.128	18.086	52	945312.282		
-1	26	27	53	Co	p4n	-42639.145	18.058	449295.712	18.058	B-	-13260#	159#	52	954224.985	1	
-3	25	28	53	Ni	x	-29379#	158#	435254#	158#	B-	-15919#	305#	52	968460#	17	
-5	24	29	53	Cu	x	-13460#	261#	418552#	261#	B-	*		52	985550#	28	
0	16	35	19	54	K	x	-5598#	904#	426585#	904#	B-	17987#	1142#	53	993990#	97
14	34	20	54	Ca	x	-23585#	699#	443790#	699#	B-	10880#	840#	53	974680#	75	
12	33	21	54	Sc	x	-34465.273	465.747	453887.283	465.747	B-	11299.021	520.721	53	963000.000	50	
10	32	22	54	Ti	x	-45764.293	232.873	464403.950	232.873	B-	4122.437	233.360	53	950870.000	25	
8	31	23	54	V	+	-49886.730	15.064	467744.033	15.064	B-	7041.591	15.000	53	946444.381	1	
6	30	24	54	Cr		-56928.321	1.391	474003.271	1.392	B-	-1377.052	1.031	53	938884.921		
4	29	25	54	Mn	-p	-55551.269	1.723	471843.866	1.724	B-	697.140	1.125	53	940363.247		
2	28	26	54	Fe		-56248.410	1.328	471758.653	1.330	B-	-8243.079	0.221	53	939614.836		
0	27	27	54	Co		-48005.330	1.346	462733.220	1.348	B-	-8799.227	50.005	53	948464.147		
-2	26	28	54	Ni	4n	-39206.103	50.021	453151.639	50.021	B-	-17512#	220#	53	957910.508	5	
-4	25	29	54	Cu	x	-21694#	214#	434858#	214#	B-	-15127#	454#	53	976710#	23	
-6	24	30	54	Zn	x	-6567#	401#	418948#	401#	B-	*		53	992950#	43	
0	17	36	19	55	K	x	-570#	1000#	429628#	1000#	B-	17547#	1220#	54	999388#	107
15	35	20	55	Ca	x	-18118#	699#	446393#	699#	B-	12221#	1240#	54	980550#	75	
13	34	21	55	Sc	x	-30339#	1025#	457832#	1025#	B-	11467#	1053#	54	967430#	110	
11	33	22	55	Ti	x	-41805.444	242.188	468516.424	242.188	B-	7341.854	262.025	54	955120.000	26	

9	32	23	55	V	+	-49147.298	100.010	475075.924	100.010	B-	5956.000	100.000	54	947238.194	10	
7	31	24	55	Cr	-n	-55103.298	1.447	480249.571	1.449	B-	2603.086	0.544	54	940844.164		
5	30	25	55	Mn		-57706.384	1.349	482070.303	1.350	B-	-231.377	0.100	54	938049.636		
3	29	26	55	Fe		-57475.007	1.347	481056.573	1.349	B-	-3451.296	0.428	54	938298.029		
1	28	27	55	Co		-54023.711	1.365	476822.923	1.367	B-	-8693.800	11.019	54	942003.149		
-1	27	28	55	Ni	+3n	-45329.911	11.094	467346.770	11.094	B-	-13706#	298#	54	951336.329	1	
-3	26	29	55	Cu	x	-31624#	298#	452859#	298#	B-	-16702#	390#	54	966050#	32	
-5	25	30	55	Zn	x	-14923#	252#	435375#	252#	B-	*		54	983980#	27	
0	16	36	20	56	Ca	x	-13237#	904#	449584#	904#	B-	12231#	1142#	55	985790#	97
14	35	21	56	Sc	x	-25467#	699#	461032#	699#	B-	13665#	752#	55	972660#	75	
12	34	22	56	Ti	x	-39132.057	279.448	473914.359	279.448	B-	7107.298	369.793	55	957990.000	30	
10	33	23	56	V	x	-46239.355	242.188	480239.304	242.188	B-	9049.241	242.378	55	950360.000	26	
8	32	24	56	Cr	-nn	-55288.596	9.588	488506.192	9.588	B-	1616.955	9.499	55	940645.238	1	
6	31	25	56	Mn	-n	-56905.551	1.381	489340.793	1.383	B-	3695.453	0.343	55	938909.366		
4	30	26	56	Fe		-60601.003	1.354	492253.892	1.356	B-	-4566.000	2.000	55	934942.133		
2	29	27	56	Co	-	-56035.003	2.415	486905.539	2.416	B-	-2135.358	11.236	55	939843.937		
0	28	28	56	Ni	-pp	-53899.645	11.130	483987.827	11.131	B-	-15299#	140#	55	942136.339	1	
-2	27	29	56	Cu	x	-38601#	140#	467907#	140#	B-	-12873#	296#	55	958560#	15	
-4	26	30	56	Zn	x	-25728#	261#	454251#	261#	B-	-20987#	369#	55	972380#	28	
-6	25	31	56	Ga	x	-4741#	261#	432482#	261#	B-	*		55	994910#	28	
0	17	37	20	57	Ca	x	-7120#	1000#	451539#	1000#	B-	14267#	1220#	56	992356#	107
15	36	21	57	Sc	x	-21387#	699#	465023#	699#	B-	13171#	1164#	56	977040#	75	
13	35	22	57	Ti	x	-34558#	931#	477412#	931#	B-	9818#	965#	56	962900#	100	
11	34	23	57	V	x	-44376.367	251.503	486447.639	251.503	B-	8016.623	267.929	56	952360.000	27	
9	33	24	57	Cr	+	-52392.990	92.367	493681.909	92.368	B-	5091.864	92.308	56	943753.800	9	
7	32	25	57	Mn	-nn	-57484.854	3.323	497991.419	3.324	B-	2690.854	3.043	56	938287.458		
5	31	26	57	Fe		-60175.708	1.357	499899.919	1.359	B-	-836.042	0.424	56	935398.707		
3	30	27	57	Co		-59339.666	1.389	498281.524	1.390	B-	-3264.191	2.620	56	936296.235		
1	29	28	57	Ni	+n	-56075.475	2.925	494234.980	2.926	B-	-8770.207	15.851	56	939800.489		
-1	28	29	57	Cu	2n-p	-47305.268	15.712	484682.419	15.712	B-	-14619#	144#	56	949215.695	1	
-3	27	30	57	Zn	x	-32686#	143#	469281#	143#	B-	-16786#	298#	56	964910#	15	
-5	26	31	57	Ga	x	-15901#	261#	451713#	261#	B-	*		56	982930#	28	
0	16	37	21	58	Sc	x	-15770#	801#	467477#	801#	B-	15798#	1063#	57	983070#	86
14	36	22	58	Ti	x	-31568#	699#	482493#	699#	B-	8812#	746#	57	966110#	75	
12	35	23	58	V	x	-40380.259	260.818	490522.853	260.818	B-	11550.524	355.923	57	956650.000	28	
10	34	24	58	Cr	x	-51930.783	242.188	501291.024	242.188	B-	3971.470	244.043	57	944250.000	26	
8	33	25	58	Mn	+	-55902.253	30.032	504480.141	30.032	B-	6246.591	30.000	57	939986.451	3	
6	32	26	58	Fe		-62148.844	1.382	509944.378	1.384	B-	-2307.416	1.137	57	933280.458		
4	31	27	58	Co		-59841.428	1.727	506854.609	1.729	B-	381.586	1.158	57	935757.571		
2	30	28	58	Ni		-60223.014	1.441	506453.842	1.443	B-	-8563.049	2.098	57	935347.922		
0	29	29	58	Cu	-	-51659.966	2.545	497108.440	2.546	B-	-9366.851	50.044	57	944540.734		
-2	28	30	58	Zn	--	-42293.114	50.021	486959.235	50.021	B-	-18307#	220#	57	954596.465	5	
-4	27	31	58	Ga	x	-23986#	214#	467870#	214#	B-	-15612#	382#	57	974250#	23	
-6	26	32	58	Ge	x	-8374#	317#	451476#	317#	B-	*		57	991010#	34	

0	17	38	21	59	Sc	x	-11140#	900#	470918#	900#	B-	14979#	1139#	58	988041#	96
	15	37	22	59	Ti	x	-26119#	699#	485115#	699#	B-	11793#	771#	58	971960#	75
	13	36	23	59	V	x	-37911.800	326.023	496125.718	326.023	B-	9939.039	411.758	58	959300.000	35
	11	35	24	59	Cr	x	-47850.840	251.503	505282.404	251.503	B-	7622.260	253.143	58	948630.000	27
	9	34	25	59	Mn	+	-55473.100	28.769	512122.310	28.769	B-	5185.321	28.735	58	940447.166	3
	7	33	26	59	Fe	-n	-60658.421	1.397	516525.278	1.399	B-	1565.188	0.622	58	934880.493	
	5	32	27	59	Co		-62223.609	1.420	517308.113	1.422	B-	-1072.484	0.561	58	933200.194	
	3	31	28	59	Ni		-61151.125	1.440	515453.276	1.441	B-	-4799.579	0.880	58	934351.553	
	1	30	29	59	Cu	-p	-56351.547	1.683	509871.344	1.684	B-	-9094.138	37.139	58	939504.114	
	-1	29	30	59	Zn	-	-47257.409	37.177	499994.852	37.177	B-	-13137#	172#	58	949267.074	3
	-3	28	31	59	Ga	x	-34121#	168#	486076#	168#	B-	-17121#	326#	58	963370#	18
	-5	27	32	59	Ge	x	-17000#	279#	468172#	279#	B-	*		58	981750#	30
0	16	38	22	60	Ti	x	-22691#	801#	489759#	801#	B-	10377#	977#	59	975640#	86
	14	37	23	60	V	x	-33068.032	558.896	499353.272	558.896	B-	13758.164	616.759	59	964500.000	60
	12	36	24	60	Cr	x	-46826.196	260.818	512329.083	260.818	B-	6088.246	377.218	59	949730.000	28
	10	35	25	60	Mn	IT	-52914.442	272.520	517634.976	272.520	B-	8492.481	272.545	59	943193.998	29
	8	34	26	60	Fe	-nn	-61406.923	3.662	525345.103	3.663	B-	237.295	3.443	59	934076.943	
	6	33	27	60	Co		-61644.218	1.422	524800.045	1.424	B-	2823.882	0.481	59	933822.196	
	4	32	28	60	Ni		-64468.100	1.418	526841.574	1.420	B-	-6126.891	2.065	59	930790.633	
	2	31	29	60	Cu	-	-58341.209	2.505	519932.329	2.506	B-	-4158.103	10.752	59	937368.123	
	0	30	30	60	Zn	-pp	-54183.106	10.637	514991.872	10.637	B-	-14185#	112#	59	941832.031	1
	-2	29	31	60	Ga	x	-39998#	112#	500025#	112#	B-	-12231#	258#	59	957060#	12
	-4	28	32	60	Ge	x	-27768#	233#	487012#	233#	B-	-21368#	640#	59	970190#	25
	-6	27	33	60	As	x	-6399#	596#	464861#	596#	B-	*		59	993130#	64
0	17	39	22	61	Ti	x	-16750#	900#	491889#	900#	B-	13607#	1139#	60	982018#	96
	15	38	23	61	V	x	-30357#	699#	504714#	699#	B-	12407#	752#	60	967410#	75
	13	37	24	61	Cr	x	-42764.883	279.448	516339.093	279.448	B-	8970.286	382.253	60	954090.000	30
	11	36	25	61	Mn	x	-51735.169	260.818	524527.025	260.818	B-	7182.320	261.588	60	944460.000	28
	9	35	26	61	Fe	+n2p	-58917.489	20.052	530926.992	20.052	B-	3977.553	20.012	60	936749.461	2
	7	34	27	61	Co	p2n	-62895.042	1.608	534122.191	1.610	B-	1321.733	0.859	60	932479.381	
	5	33	28	61	Ni		-64216.775	1.421	534661.571	1.423	B-	-2237.206	1.198	60	931060.442	
	3	32	29	61	Cu	p2n	-61979.570	1.812	531642.012	1.813	B-	-5637.145	16.279	60	933462.181	
	1	31	30	61	Zn	+3n	-56342.425	16.349	525222.514	16.349	B-	-8995#	196#	60	939513.907	1
	-1	30	31	61	Ga	x	-47348#	196#	515446#	196#	B-	-13618#	357#	60	949170#	21
	-3	29	32	61	Ge	x	-33729#	298#	501045#	298#	B-	-15677#	667#	60	963790#	32
	-5	28	33	61	As	x	-18052#	596#	484585#	596#	B-	*		60	980620#	64
0	16	39	23	62	V	x	-25020#	699#	507448#	699#	B-	16152#	792#	61	973140#	75
	14	38	24	62	Cr	x	-41172.029	372.598	522817.561	372.598	B-	7293.597	454.813	61	955800.000	40
	12	37	25	62	Mn	x	-48465.626	260.818	529328.805	260.818	B-	10432.270	261.224	61	947970.000	28
	10	36	26	62	Fe	+pp	-58897.896	14.548	538978.721	14.549	B-	2530.201	24.690	61	936770.495	1
	8	35	27	62	Co	+	-61428.097	20.051	540726.569	20.052	B-	5314.591	20.000	61	934054.212	2
	6	34	28	62	Ni		-66742.688	1.434	545258.806	1.436	B-	-3948.171	3.917	61	928348.763	
	4	33	29	62	Cu	-	-62794.517	4.171	540528.282	4.172	B-	-1627.164	10.774	61	932587.299	
	2	32	30	62	Zn	+nn	-61167.353	10.139	538118.764	10.139	B-	-9171.000	26.000	61	934334.132	1

0	31	31	62	Ga	-	-51996.353	27.907	528165.411	27.907	B-	-9753#	142#	61	944179.608	2	
-2	30	32	62	Ge	x	-42243#	140#	517630#	140#	B-	-17279#	329#	61	954650#	15	
-4	29	33	62	As	x	-24964#	298#	499568#	298#	B-	*		61	973200#	32	
0	17	40	23	63	V	x	-21657#	904#	512156#	904#	B-	13870#	1142#	62	976750#	97
15	39	24	63	Cr	x	-35527#	699#	525244#	699#	B-	11225#	752#	62	961860#	75	
13	38	25	63	Mn	x	-46751.677	279.448	535686.179	279.448	B-	9027.627	336.597	62	949810.000	30	
11	37	26	63	Fe	x	-55779.304	187.633	543931.452	187.633	B-	6057.713	188.702	62	940118.442	20	
9	36	27	63	Co	+p	-61837.017	20.052	549206.812	20.052	B-	3672.200	20.001	62	933615.218	2	
7	35	28	63	Ni		-65509.217	1.435	552096.659	1.437	B-	66.945	0.005	62	929672.948		
5	34	29	63	Cu		-65576.162	1.435	551381.251	1.437	B-	-3366.869	1.570	62	929601.079		
3	33	30	63	Zn		-62209.293	2.127	547232.028	2.128	B-	-5520.000	100.000	62	933215.563		
1	32	31	63	Ga	-	-56689.293	100.023	540929.675	100.023	B-	-9779#	220#	62	939141.527	10	
-1	31	32	63	Ge	x	-46910#	196#	530368#	196#	B-	-13087#	540#	62	949640#	21	
-3	30	33	63	As	x	-33823#	503#	516498#	503#	B-	*		62	963690#	54	
0	16	40	24	64	Cr	x	-33347#	699#	531136#	699#	B-	9753#	771#	63	964200#	75
14	39	25	64	Mn	x	-43100.221	326.023	540106.046	326.023	B-	11979.011	429.397	63	953730.000	35	
12	38	26	64	Fe	x	-55079.232	279.448	551302.703	279.448	B-	4710.077	280.167	63	940870.000	30	
10	37	27	64	Co	+	-59789.309	20.052	555230.427	20.052	B-	7306.591	20.000	63	935813.523	2	
8	36	28	64	Ni		-67095.900	1.448	561754.664	1.450	B-	-1675.098	0.199	63	927969.574		
6	35	29	64	Cu		-65420.802	1.439	559297.213	1.441	B-	578.725	0.854	63	929767.865		
4	34	30	64	Zn		-65999.528	1.671	559093.585	1.673	B-	-7164.799	3.578	63	929146.578		
2	33	31	64	Ga	-	-58834.729	3.949	551146.433	3.950	B-	-4410.000	250.000	63	936838.307		
0	32	32	64	Ge	-	-54424.729	250.031	545954.080	250.031	B-	-14904#	437#	63	941572.638	26	
-2	31	33	64	As	-p	-39521#	358#	530268#	358#	B-	*		63	957572#	38	
0	17	41	24	65	Cr	x	-27600#	904#	533460#	904#	B-	13292#	1062#	64	970370#	97
15	40	25	65	Mn	x	-40892.580	558.896	545969.728	558.896	B-	10395.471	624.865	64	956100.000	60	
13	39	26	65	Fe	x	-51288.052	279.448	555582.846	279.448	B-	7876.171	279.770	64	944940.000	30	
11	38	27	65	Co	3p2n	-59164.222	13.419	562676.663	13.419	B-	5958.365	13.406	64	936484.581	1	
9	37	28	65	Ni	-n	-65122.587	1.461	567852.674	1.464	B-	2137.132	1.005	64	930088.013		
7	36	29	65	Cu		-67259.719	1.731	569207.453	1.732	B-	-1351.944	0.346	64	927793.707		
5	35	30	65	Zn		-65907.775	1.715	567073.155	1.717	B-	-3254.866	0.872	64	929245.079		
3	34	31	65	Ga	-p	-62652.909	1.815	563035.935	1.816	B-	-6242.350	100.002	64	932739.322		
1	33	32	65	Ge	ep	-56410.559	100.014	556011.232	100.014	B-	-9355#	403#	64	939440.762	10	
-1	32	33	65	As	-p	-47056#	391#	545874#	391#	B-	-14137#	713#	64	949484#	41	
-3	31	34	65	Se	x	-32919#	596#	530955#	596#	B-	*		64	964660#	64	
0	16	41	25	66	Mn	x	-36496#	699#	549644#	699#	B-	13823#	771#	65	960820#	75
14	40	26	66	Fe	x	-50319.298	326.023	562685.415	326.023	B-	5732.961	425.097	65	945980.000	35	
12	39	27	66	Co	x	-56052.259	272.794	567636.023	272.794	B-	9976.467	273.265	65	939825.412	29	
10	38	28	66	Ni		-66028.726	16.037	576830.136	16.038	B-	225.600	15.990	65	929115.232	1	
8	37	29	66	Cu		-66254.326	1.734	576273.382	1.736	B-	2641.976	1.247	65	928873.041		
6	36	30	66	Zn		-68896.301	1.537	578133.004	1.539	B-	-5175.000	3.000	65	926036.763		
4	35	31	66	Ga	-	-63721.301	3.371	572175.651	3.372	B-	-2100.000	30.000	65	931592.355		
2	34	32	66	Ge	-	-61621.301	30.189	569293.298	30.189	B-	-9800#	200#	65	933846.798	3	
0	33	33	66	As	-	-51821#	202#	558711#	202#	B-	-10100#	360#	65	944368#	21	

-2	32	34	66	Se	x	-41722#	298#	547829#	298#	B-	*	65	955210#	32		
0	17	42	25	67	Mn	x	-33701#	801#	554921#	801#	B-	12873#	927#	66	963820#	86
15	41	26	67	Fe	x	-46574.693	465.747	567012.133	465.747	B-	8746.727	543.150	66	950000.000	50	
13	40	27	67	Co	x	-55321.420	279.448	574976.507	279.448	B-	8421.041	280.098	66	940610.000	30	
11	39	28	67	Ni	+n2p	-63742.462	19.065	582615.195	19.065	B-	3557.696	20.656	66	931569.638	2	
9	38	29	67	Cu	+	-67300.158	8.149	585390.537	8.150	B-	577.000	8.000	66	927750.294		
7	37	30	67	Zn		-67877.158	1.554	585185.184	1.556	B-	-1000.477	1.262	66	927130.859		
5	36	31	67	Ga		-66876.681	1.750	583402.354	1.752	B-	-4222.928	4.913	66	928204.915		
3	35	32	67	Ge	-n2p	-62653.753	4.909	578397.072	4.909	B-	-6010.000	100.000	66	932738.415		
1	34	33	67	As	-	-56643.753	100.120	571604.719	100.120	B-	-10153#	220#	66	939190.417	10	
-1	33	34	67	Se	x	-46491#	196#	560669#	196#	B-	-13693#	540#	66	950090#	21	
-3	32	35	67	Br	x	-32798#	503#	546194#	503#	B-	*	66	964790#	54		
0	16	42	26	68	Fe	x	-44237#	699#	572745#	699#	B-	7592#	771#	67	952510#	75
14	41	27	68	Co	x	-51828.318	326.023	579554.727	326.023	B-	11657.709	326.440	67	944360.000	35	
12	40	28	68	Ni		-63486.027	16.502	590430.083	16.502	B-	2055.860	48.484	67	931844.932	1	
10	39	29	68	Cu	+	-65541.887	45.622	591703.589	45.622	B-	4462.143	45.593	67	929637.875	4	
8	38	30	68	Zn		-70004.030	1.623	595383.379	1.625	B-	-2921.100	1.200	67	924847.566		
6	37	31	68	Ga	-	-67082.930	2.019	591679.926	2.020	B-	-105.975	6.484	67	927983.497		
4	36	32	68	Ge		-66976.955	6.383	590791.597	6.384	B-	-8100.000	100.000	67	928097.266		
2	35	33	68	As	-	-58876.955	100.204	581909.244	100.204	B-	-4729#	314#	67	936792.976	10	
0	34	34	68	Se	x	-54148#	298#	576398#	298#	B-	-15256#	614#	67	941870#	32	
-2	33	35	68	Br	-p	-38892#	537#	560359#	537#	B-	*	67	958248#	57		
0	17	43	26	69	Fe	x	-39402#	801#	575982#	801#	B-	11644#	883#	68	957700#	86
15	42	27	69	Co	x	-51045.864	372.598	586843.595	372.598	B-	9331.858	397.302	68	945200.000	40	
13	41	28	69	Ni	2p-n	-60377.721	137.912	595393.100	137.912	B-	5362.196	138.069	68	935181.837	14	
11	40	29	69	Cu	+p	-65739.917	8.085	599972.942	8.086	B-	2675.011	8.040	68	929425.281		
9	39	30	69	Zn		-68414.928	1.692	601865.600	1.694	B-	905.995	2.931	68	926553.538		
7	38	31	69	Ga		-69320.923	3.031	601989.242	3.032	B-	-2227.285	0.550	68	925580.912		
5	37	32	69	Ge		-67093.638	3.080	598979.603	3.081	B-	-4013.017	31.206	68	927972.002		
3	36	33	69	As		-63080.621	31.300	594184.232	31.301	B-	-6783.140	37.570	68	932280.154	3	
1	35	34	69	Se		-56297.481	34.476	586618.739	34.476	B-	-9889#	316#	68	939562.155	3	
-1	34	35	69	Br	-p	-46409#	314#	575948#	314#	B-	-14105#	593#	68	950178#	33	
-3	33	36	69	Kr	x	-32304#	503#	561061#	503#	B-	*	68	965320#	54		
0	16	43	27	70	Co	x	-46752#	699#	590621#	699#	B-	12734#	771#	69	949810#	75
14	42	28	70	Ni	x	-59485.198	326.023	602571.899	326.023	B-	3475.137	326.346	69	936140.000	35	
12	41	29	70	Cu	+	-62960.334	14.528	605264.682	14.529	B-	6599.091	14.142	69	932409.287	1	
10	40	30	70	Zn		-69559.425	3.327	611081.420	3.328	B-	-654.720	1.599	69	925324.870		
8	39	31	70	Ga		-68904.705	3.082	609644.346	3.083	B-	1655.614	3.107	69	926027.741		
6	38	32	70	Ge		-70560.320	1.742	610517.607	1.744	B-	-6220.000	50.000	69	924250.365		
4	37	33	70	As	-	-64340.320	50.030	603515.254	50.030	B-	-2400#	200#	69	930927.811	5	
2	36	34	70	Se	-	-61940#	206#	600333#	206#	B-	-10350#	300#	69	933504#	22	
0	35	35	70	Br	-	-51590#	364#	589201#	364#	B-	-10614#	541#	69	944616#	39	
-2	34	36	70	Kr	x	-40976#	401#	577804#	401#	B-	*	69	956010#	43		
0	17	44	27	71	Co	x	-44963#	801#	596904#	801#	B-	10926#	883#	70	951730#	86

15	43	28	71	Ni	x	-55889.632	372.598	607047.656	372.598	B-	6874.594	374.253	70	940000.000	40
13	42	29	71	Cu	p-2n	-62764.225	35.158	613139.896	35.158	B-	4557.449	36.401	70	932619.818	3
11	41	30	71	Zn	-n	-67321.674	10.539	616914.992	10.539	B-	2815.147	10.551	70	927727.195	1
9	40	31	71	Ga		-70136.821	1.764	618947.785	1.767	B-	-231.924	0.315	70	924705.010	
7	39	32	71	Ge		-69904.897	1.742	617933.507	1.744	B-	-2012.710	4.000	70	924953.991	
5	38	33	71	As		-67892.187	4.363	615138.444	4.364	B-	-4800#	200#	70	927114.724	
3	37	34	71	Se	-	-63092#	200#	609556#	200#	B-	-6500#	361#	70	932268#	21
1	36	35	71	Br	--	-56592#	300#	602274#	300#	B-	-10493#	423#	70	939246#	32
-1	35	36	71	Kr	x	-46100#	298#	590999#	298#	B-	-13795#	585#	70	950510#	32
-3	34	37	71	Rb	x	-32304#	503#	576421#	503#	B-	*		70	965320#	54
0	18	45	72	Co	x	-40604#	801#	600616#	801#	B-	14075#	927#	71	956410#	86
16	44	28	72	Ni	x	-54678.690	465.747	613908.036	465.747	B-	5384#	505#	71	941300.000	50
14	43	29	72	Cu	x	-60063#	196#	618510#	196#	B-	8066#	196#	71	935520#	21
12	42	30	72	Zn	+	-68128.416	6.094	625793.056	6.095	B-	458.083	5.747	71	926861.122	
10	41	31	72	Ga	-n	-68586.498	2.028	625468.785	2.030	B-	3999.058	2.281	71	926369.350	
8	40	32	72	Ge		-72585.557	1.461	628685.490	1.465	B-	-4356.097	4.082	71	922076.184	
6	39	33	72	As	-	-68229.459	4.336	623547.039	4.337	B-	-335.027	12.692	71	926752.647	
4	38	34	72	Se	+nn	-67894.432	12.094	622429.659	12.094	B-	-8741.663	258.889	71	927112.313	1
2	37	35	72	Br	+n	-59152.770	258.615	612905.643	258.615	B-	-5040.000	80.000	71	936496.876	27
0	36	36	72	Kr	-	-54112.770	270.706	607083.289	270.706	B-	-15996#	571#	71	941907.540	29
-2	35	37	72	Rb	x	-38117#	503#	590305#	503#	B-	*		71	959080#	54
0	17	45	73	Ni	x	-50226#	596#	617527#	596#	B-	8933#	667#	72	946080#	64
15	44	29	73	Cu	x	-59159#	298#	625677#	298#	B-	6251#	301#	72	936490#	32
13	43	30	73	Zn	+n2p	-65409.994	40.027	631145.957	40.027	B-	4293.849	40.475	72	929779.469	4
11	42	31	73	Ga	+p	-69703.842	6.334	634657.452	6.335	B-	1593.293	6.164	72	925169.832	
9	41	32	73	Ge		-71297.136	1.461	635468.392	1.464	B-	-340.859	3.580	72	923459.361	
7	40	33	73	As		-70956.276	3.860	634345.179	3.861	B-	-2740.000	10.000	72	923825.288	
5	39	34	73	Se	-	-68216.276	10.719	630822.826	10.719	B-	-4683.635	132.140	72	926766.800	1
3	38	35	73	Br	-	-63532.642	132.574	625356.837	132.574	B-	-6647.351	191.642	72	931794.889	14
1	37	36	73	Kr	ep	-56885.291	138.401	617927.133	138.401	B-	-10651#	502#	72	938931.115	14
-1	36	37	73	Rb	-p	-46234#	483#	606493#	483#	B-	-14535#	767#	72	950366#	51
-3	35	38	73	Sr	x	-31699#	596#	591176#	596#	B-	*		72	965970#	64
0	18	46	74	Ni	x	-48522#	699#	623894#	699#	B-	7182#	805#	73	947910#	75
16	45	29	74	Cu	x	-55703#	401#	630293#	401#	B-	10006#	403#	73	940200#	43
14	44	30	74	Zn	+pp	-65709.197	47.379	639516.483	47.379	B-	2344.814	85.105	73	929458.261	5
12	43	31	74	Ga	+	-68054.011	70.726	641078.943	70.726	B-	5368.000	70.711	73	926940.999	7
10	42	32	74	Ge		-73422.011	1.460	645664.590	1.464	B-	-2562.412	1.697	73	921178.213	
8	41	33	74	As		-70859.599	2.228	642319.824	2.230	B-	1353.008	1.772	73	923929.076	
6	40	34	74	Se		-72212.607	1.505	642890.480	1.509	B-	-6906.646	15.000	73	922476.561	
4	39	35	74	Br	-	-65305.961	15.075	635201.480	15.076	B-	-3136.408	61.304	73	929891.152	1
2	38	36	74	Kr	4n	-62169.554	59.425	631282.719	59.425	B-	-10444.050	722.518	73	933258.225	6
0	37	37	74	Rb		-51725.504	720.072	620056.316	720.072	B-	-11029#	878#	73	944470.376	77
-2	36	38	74	Sr	x	-40697#	503#	608245#	503#	B-	*		73	956310#	54
0	19	47	75	Ni	x	-43808#	801#	627251#	801#	B-	10498#	946#	74	952970#	86

17	46	29	75	Cu	x	-54306#	503#	636967#	503#	B-	8162#	508#	74	941700#	54	
15	45	30	75	Zn	+	-62468.419	70.918	644347.028	70.918	B-	5995.779	70.588	74	932937.379	7	
13	44	31	75	Ga	+p	-68464.198	6.831	649560.453	6.832	B-	3391.710	6.689	74	926500.645		
11	43	32	75	Ge	-n	-71855.908	1.462	652169.809	1.466	B-	1176.549	0.955	74	922859.494		
9	42	33	75	As		-73032.457	1.649	652564.005	1.652	B-	-863.639	0.781	74	921596.417		
7	41	34	75	Se		-72168.818	1.503	650918.013	1.507	B-	-3030.000	13.608	74	922523.571		
5	40	35	75	Br	-	-69138.818	13.691	647105.659	13.691	B-	-4897.221	20.657	74	925776.410	1	
3	39	36	75	Kr	+3n	-64241.597	15.481	641426.085	15.481	B-	-7019.183	17.228	74	931033.794	1	
1	38	37	75	Rb		-57222.414	7.731	633624.548	7.731	B-	-10573#	298#	74	938569.199		
-1	37	38	75	Sr	x	-46649#	298#	622269#	298#	B-	*		74	949920#	32	
0	20	48	28	76	Ni	x	-41610#	904#	633124#	904#	B-	8700#	1082#	75	955330#	97
18	47	29	76	Cu	x	-50310#	596#	641042#	596#	B-	11733#	608#	75	945990#	64	
16	46	30	76	Zn	+	-62042.888	120.425	651992.819	120.425	B-	4160.000	80.000	75	933394.207	12	
14	45	31	76	Ga	+	-66202.888	90.012	655370.466	90.012	B-	7010.000	90.000	75	928928.262	9	
12	44	32	76	Ge		-73212.888	1.473	661598.112	1.477	B-	-923.313	0.906	75	921402.716		
10	43	33	76	As		-72289.575	1.650	659892.446	1.653	B-	2961.988	0.802	75	922393.933		
8	42	34	76	Se		-75251.563	1.480	662072.081	1.483	B-	-4962.875	9.322	75	919214.107		
6	41	35	76	Br	-	-70288.688	9.439	656326.852	9.439	B-	-1309.988	14.198	75	924541.974	1	
4	40	36	76	Kr	+nn	-68978.700	10.625	654234.511	10.626	B-	-8498.153	13.030	75	925948.304	1	
2	39	37	76	Rb		-60480.547	7.717	644954.005	7.717	B-	-6091#	298#	75	935071.448		
0	38	38	76	Sr	x	-54390#	298#	638081#	298#	B-	*		75	941610#	32	
0	21	49	28	77	Ni	x	-36487#	997#	636073#	997#	B-	11998#	1217#	76	960830#	107
19	48	29	77	Cu	x	-48484#	699#	647288#	699#	B-	10120#	711#	76	947950#	75	
17	47	30	77	Zn	+	-58604.138	134.177	656625.392	134.177	B-	7270.000	120.000	76	937085.857	14	
15	46	31	77	Ga	+	-65874.138	60.028	663113.039	60.028	B-	5340.000	60.000	76	929281.189	6	
13	45	32	77	Ge	-n	-71214.138	1.832	667670.685	1.835	B-	2702.040	2.081	76	923548.462		
11	44	33	77	As		-73916.177	2.188	669590.371	2.190	B-	682.871	1.763	76	920647.703		
9	43	34	77	Se		-74599.049	1.480	669490.889	1.484	B-	-1365.116	2.799	76	919914.610		
7	42	35	77	Br		-73233.933	3.161	667343.420	3.163	B-	-3062.526	9.215	76	921380.123		
5	41	36	77	Kr		-70171.407	8.773	663498.541	8.774	B-	-5345.581	11.539	76	924667.880		
3	40	37	77	Rb		-64825.826	7.661	657370.606	7.662	B-	-6851.055	150.626	76	930406.599		
1	39	38	77	Sr	ep	-57974.770	150.440	649737.197	150.440	B-	-11046#	334#	76	937761.511	16	
-1	38	39	77	Y	x	-46929#	298#	637909#	298#	B-	*		76	949620#	32	
0	22	50	28	78	Ni	x	-33720#	1099#	641377#	1099#	B-	10237#	1360#	77	963800#	118
20	49	29	78	Cu	x	-43957#	801#	650832#	801#	B-	13265#	817#	77	952810#	86	
18	48	30	78	Zn	+	-57222.063	161.291	663314.640	161.291	B-	6440.000	140.000	77	938569.576	17	
16	47	31	78	Ga	+	-63662.063	80.092	668972.286	80.092	B-	8200.000	80.000	77	931655.950	8	
14	46	32	78	Ge	-nn	-71862.063	3.830	676389.933	3.832	B-	954.138	10.484	77	922852.886		
12	45	33	78	As	+pn	-72816.201	9.913	676561.717	9.914	B-	4209.472	9.864	77	921828.577	1	
10	44	34	78	Se		-77025.673	1.487	679988.836	1.491	B-	-3573.777	3.575	77	917309.522		
8	43	35	78	Br	-	-73451.896	3.872	675632.706	3.873	B-	707.804	7.633	77	921146.130		
6	42	36	78	Kr		-74159.700	6.608	675558.156	6.609	B-	-7223.934	10.036	77	920386.271		
4	41	37	78	Rb		-66935.766	7.732	667551.869	7.732	B-	-3761.258	10.524	77	928141.485		
2	40	38	78	Sr	x	-63174.508	7.808	663008.257	7.809	B-	-10545#	401#	77	932179.362		

0	39	39	78	Y	x	-52629#	401#	651681#	401#	B-	*		77	943500#	43	
0	21	50	29	79	Cu	x	-41656#	904#	656603#	904#	B-	11742#	943#	78	955280#	97
	19	49	30	79	Zn	+	-53398#	268#	667562#	268#	B-	9090#	240#	78	942675#	28
	17	48	31	79	Ga	+	-62487.989	120.129	675869.535	120.129	B-	7000.000	80.000	78	932916.371	12
	15	47	32	79	Ge	+	-69487.989	89.616	682087.182	89.616	B-	4148.000	89.443	78	925401.560	9
	13	46	33	79	As	+p	-73635.989	5.573	685452.828	5.574	B-	2280.945	5.492	78	920948.498	
	11	45	34	79	Se	-n	-75916.934	1.513	686951.420	1.516	B-	151.046	1.659	78	918499.802	
	9	44	35	79	Br		-76067.980	1.906	686320.113	1.909	B-	-1625.778	3.333	78	918337.647	
	7	43	36	79	Kr	-	-74442.202	3.840	683911.982	3.841	B-	-3645.613	7.604	78	920082.992	
	5	42	37	79	Rb		-70796.589	6.615	679484.015	6.615	B-	-5319.162	10.579	78	923996.719	
	3	41	38	79	Sr	x	-65477.427	8.702	673382.500	8.702	B-	-7120.000	450.000	78	929707.076	
	1	40	39	79	Y	-	-58357.427	450.084	665480.146	450.084	B-	-11000#	603#	78	937350.712	48
	-1	39	40	79	Zr	x	-47357#	401#	653698#	401#	B-	*		78	949160#	43
0	22	51	29	80	Cu	x	-35499#	904#	658517#	904#	B-	16278#	920#	79	961890#	97
	20	50	30	80	Zn	+	-51777.345	171.277	674012.567	171.277	B-	7290.400	120.000	79	944414.722	18
	18	49	31	80	Ga	+	-59067.745	122.213	680520.614	122.213	B-	10380.000	120.000	79	936588.154	13
	16	48	32	80	Ge		-69447.745	23.150	690118.261	23.151	B-	2670.222	18.028	79	925444.764	2
	14	47	33	80	As		-72117.967	21.103	692006.129	21.103	B-	5641.437	21.023	79	922578.162	2
	12	46	34	80	Se		-77759.404	1.879	696865.213	1.883	B-	-1870.555	0.309	79	916521.828	
	10	45	35	80	Br		-75888.849	1.898	694212.305	1.901	B-	2004.493	3.732	79	918529.952	
	8	44	36	80	Kr		-77893.342	3.839	695434.444	3.840	B-	-5720.566	7.857	79	916378.040	
	6	43	37	80	Rb		-72172.776	7.244	688931.525	7.244	B-	-1867.893	10.209	79	922519.322	
	4	42	38	80	Sr	x	-70304.883	7.808	686281.278	7.809	B-	-9140#	400#	79	924524.588	
	2	41	39	80	Y	-	-61165#	400#	676359#	400#	B-	-5788#	499#	79	934337#	42
	0	40	40	80	Zr	x	-55377#	298#	669789#	298#	B-	*		79	940550#	32
0	21	51	30	81	Zn	x	-46128#	401#	676434#	401#	B-	11855#	444#	80	950480#	43
	19	50	31	81	Ga	+	-57982.741	192.174	687506.933	192.174	B-	8320.000	150.000	80	937752.955	20
	17	49	32	81	Ge	+	-66302.741	120.128	695044.579	120.128	B-	6230.000	120.000	80	928821.065	12
	15	48	33	81	As	+p	-72532.741	5.547	700492.226	5.548	B-	3856.341	5.307	80	922132.884	
	13	47	34	81	Se	-n	-76389.081	1.973	703566.213	1.976	B-	1585.282	2.606	80	917992.931	
	11	46	35	81	Br		-77974.363	2.818	704369.142	2.820	B-	-280.714	0.497	80	916291.060	
	9	45	36	81	Kr		-77693.650	2.851	703306.075	2.853	B-	-2237.212	6.511	80	916592.419	
	7	44	37	81	Rb		-75456.438	6.274	700286.509	6.274	B-	-3929.907	9.638	80	918994.165	
	5	43	38	81	Sr	x	-71526.530	7.808	695574.248	7.809	B-	-5510.367	61.845	80	923213.095	
	3	42	39	81	Y	-	-66016.164	62.336	689281.528	62.336	B-	-7160.000	290.000	80	929128.719	6
	1	41	40	81	Zr	-	-58856.164	296.624	681339.175	296.624	B-	-11397#	498#	80	936815.296	31
	-1	40	41	81	Nb	x	-47460#	401#	669160#	401#	B-	*		80	949050#	43
0	22	52	30	82	Zn	x	-42066#	401#	680444#	401#	B-	10880#	499#	81	954840#	43
	20	51	31	82	Ga	x	-52946#	298#	690542#	298#	B-	12677#	385#	81	943160#	32
	18	50	32	82	Ge	+	-65623.439	244.140	702436.600	244.140	B-	4700.000	140.000	81	929550.326	26
	16	49	33	82	As	+	-70323.439	200.011	706354.247	200.011	B-	7270.000	200.000	81	924504.668	21
	14	48	34	82	Se		-77593.439	2.074	712841.893	2.077	B-	-97.496	2.384	81	916700.000	
	12	47	35	82	Br		-77495.943	2.814	711962.044	2.816	B-	3092.620	1.455	81	916804.666	
	10	46	36	82	Kr		-80588.563	2.575	714272.310	2.577	B-	-4399.529	7.120	81	913484.601	

	8	45	37	82	Rb		-76189.034	7.025	709090.428	7.026	B-	-180.307	8.814	81	918207.691	
	6	44	38	82	Sr		-76008.727	5.837	708127.768	5.838	B-	-7815.991	102.427	81	918401.258	
	4	43	39	82	Y	-	-68192.736	102.593	699529.424	102.594	B-	-4000.000	500.000	81	926792.071	11
	2	42	40	82	Zr	-	-64192.736	510.417	694747.070	510.417	B-	-11219#	591#	81	931086.249	54
	0	41	41	82	Nb	x	-52974#	298#	682746#	298#	B-	*		81	943130#	32
0	21	52	31	83	Ga	x	-49490#	503#	695157#	503#	B-	11513#	585#	82	946870#	54
	19	51	32	83	Ge	x	-61004#	298#	705888#	298#	B-	8877#	370#	82	934510#	32
	17	50	33	83	As	+	-69880.088	220.030	713982.218	220.030	B-	5460.000	220.000	82	924980.625	23
	15	49	34	83	Se	-n	-75340.088	3.647	718659.865	3.649	B-	3669.018	5.166	82	919119.072	
	13	48	35	83	Br		-79009.106	4.268	721546.530	4.269	B-	972.728	3.985	82	915180.219	
	11	47	36	83	Kr		-79981.833	3.254	721736.904	3.256	B-	-909.137	6.631	82	914135.952	
	9	46	37	83	Rb		-79072.696	6.078	720045.414	6.079	B-	-2275.712	6.289	82	915111.951	
	7	45	38	83	Sr		-76796.985	8.571	716987.348	8.571	B-	-4468.882	43.097	82	917555.029	
	5	44	39	83	Y	-	-72328.103	43.941	711736.113	43.941	B-	-5868.000	85.000	82	922352.572	4
	3	43	40	83	Zr	-	-66460.103	95.686	705085.760	95.686	B-	-7500.000	300.000	82	928652.130	10
	1	42	41	83	Nb	-	-58960.103	314.890	696803.406	314.890	B-	-11212#	593#	82	936703.713	33
	-1	41	42	83	Mo	x	-47748#	503#	684809#	503#	B-	*		82	948740#	54
0	22	53	31	84	Ga	x	-44395#	596#	698133#	596#	B-	14000#	718#	83	952340#	64
	20	52	32	84	Ge	x	-58395#	401#	711351#	401#	B-	7685#	499#	83	937310#	43
	18	51	33	84	As	x	-66080#	298#	718254#	298#	B-	9870#	298#	83	929060#	32
	16	50	34	84	Se		-75949.796	14.583	727340.896	14.583	B-	1826.508	26.923	83	918464.523	1
	14	49	35	84	Br		-77776.304	25.418	728385.051	25.419	B-	4654.729	25.333	83	916503.685	2
	12	48	36	84	Kr		-82431.033	3.013	732257.427	3.016	B-	-2680.884	2.317	83	911506.627	
	10	47	37	84	Rb		-79750.149	3.104	728794.189	3.106	B-	894.139	3.170	83	914384.676	
	8	46	38	84	Sr		-80644.288	3.416	728905.975	3.417	B-	-6485.983	91.323	83	913424.778	
	6	45	39	84	Y	-	-74158.306	91.387	721637.639	91.387	B-	-2666#	216#	83	920387.768	9
	4	44	40	84	Zr	x	-71492#	196#	718189#	196#	B-	-9613#	357#	83	923250#	21
	2	43	41	84	Nb	x	-61879#	298#	707794#	298#	B-	-6073#	499#	83	933570#	32
	0	42	42	84	Mo	x	-55806#	401#	700938#	401#	B-	*		83	940090#	43
0	21	53	32	85	Ge	x	-53384#	503#	714411#	503#	B-	10135#	585#	84	942690#	54
	19	52	33	85	As	x	-63519#	298#	723763#	298#	B-	8910#	300#	84	931810#	32
	17	51	34	85	Se	+	-72428.605	29.981	731891.028	29.982	B-	6182.000	23.000	84	922244.678	3
	15	50	35	85	Br	+	-78610.605	19.232	737290.674	19.233	B-	2870.000	19.000	84	915608.027	2
	13	49	36	85	Kr		-81480.605	2.981	739378.321	2.983	B-	687.083	1.949	84	912526.954	
	11	48	37	85	Rb		-82167.687	2.332	739283.050	2.335	B-	-1065.022	2.737	84	911789.341	
	9	47	38	85	Sr		-81102.665	3.480	737435.675	3.481	B-	-3255.000	25.000	84	912932.689	
	7	46	39	85	Y	-	-77847.665	25.241	733398.321	25.241	B-	-4693.000	99.000	84	916427.076	2
	5	45	40	85	Zr	-	-73154.665	102.167	727922.968	102.167	B-	-6000.000	200.000	84	921465.220	10
	3	44	41	85	Nb	-	-67154.665	224.584	721140.615	224.584	B-	-8089#	459#	84	927906.486	24
	1	43	42	85	Mo	x	-59066#	401#	712270#	401#	B-	-11504#	643#	84	936590#	43
	-1	42	43	85	Tc	x	-47562#	503#	699983#	503#	B-	*		84	948940#	54
0	22	54	32	86	Ge	x	-50049#	596#	719148#	596#	B-	9352#	718#	85	946270#	64
	20	53	33	86	As	x	-59401#	401#	727717#	401#	B-	11140#	401#	85	936230#	43
	18	52	34	86	Se	+	-70540.945	15.594	738074.691	15.595	B-	5099.000	11.000	85	924271.165	1

	16	51	35	86	Br	+	-75639.945	11.054	742391.337	11.054	B-	7626.000	11.000	85	918797.162	1
	14	50	36	86	Kr		-83265.945	1.089	749234.984	1.095	B-	-518.626	2.538	85	910610.313	
	12	49	37	86	Rb		-82747.319	2.333	747934.005	2.336	B-	1774.243	1.404	85	911167.080	
	10	48	38	86	Sr		-84521.563	2.206	748925.895	2.209	B-	-5240.000	14.142	85	909262.351	
	8	47	39	86	Y	-	-79281.563	14.313	742903.541	14.314	B-	-1476.536	33.252	85	914887.724	1
	6	46	40	86	Zr	4n	-77805.027	30.079	740644.652	30.079	B-	-7978.000	80.000	85	916472.851	3
	4	45	41	86	Nb	-	-69827.027	85.468	731884.298	85.468	B-	-5270.000	430.000	85	925037.588	9
	2	44	42	86	Mo	-	-64557.027	438.412	725831.945	438.412	B-	-11350#	530#	85	930695.167	47
	0	43	43	86	Tc	x	-53207#	298#	713699#	298#	B-	*		85	942880#	32
0	21	54	33	87	As	x	-56281#	503#	732668#	503#	B-	10302#	505#	86	939580#	54
	19	53	34	87	Se	+	-66582.484	39.234	742187.552	39.234	B-	7275.000	35.000	86	928520.749	4
	17	52	35	87	Br	+	-73857.484	17.728	748680.199	17.729	B-	6852.500	17.678	86	920710.713	1
	15	51	36	87	Kr		-80709.984	1.338	754750.345	1.343	B-	3885.061	2.739	86	913354.251	
	13	50	37	87	Rb		-84595.045	2.484	757853.053	2.487	B-	283.314	1.515	86	909183.465	
	11	49	38	87	Sr		-84878.358	2.204	757354.013	2.208	B-	-1861.606	1.366	86	908879.316	
	9	48	39	87	Y	-	-83016.752	2.593	754710.053	2.596	B-	-3668.917	8.460	86	910877.833	
	7	47	40	87	Zr	+3n	-79347.835	8.291	750258.783	8.292	B-	-5165.000	60.000	86	914816.578	
	5	46	41	87	Nb	-	-74182.835	60.570	744311.429	60.570	B-	-6488.223	214.905	86	920361.435	6
	3	45	42	87	Mo	-	-67694.611	223.277	737040.853	223.277	B-	-8573#	372#	86	927326.830	23
	1	44	43	87	Tc	x	-59122#	298#	727686#	298#	B-	-11783#	667#	86	936530#	32
	-1	43	44	87	Ru	x	-47339#	596#	715120#	596#	B-	*		86	949180#	64
0	22	55	33	88	As	x	-51642#	596#	736101#	596#	B-	12236#	598#	87	944560#	64
	20	54	34	88	Se	+	-63878.140	49.382	747554.532	49.382	B-	6854.000	31.000	87	931423.982	5
	18	53	35	88	Br	+	-70732.140	38.439	753626.178	38.439	B-	8960.000	36.000	87	924065.908	4
	16	52	36	88	Kr		-79692.140	13.475	761803.825	13.475	B-	2914.081	13.891	87	914446.951	1
	14	51	37	88	Rb		-82606.221	4.395	763935.552	4.396	B-	5313.443	3.867	87	911318.556	
	12	50	38	88	Sr		-87919.663	2.208	768466.641	2.211	B-	-3622.600	1.500	87	905614.339	
	10	49	39	88	Y	-	-84297.063	2.669	764061.688	2.672	B-	-673.301	10.390	87	909503.361	
	8	48	40	88	Zr	+nn	-83623.763	10.234	762606.034	10.235	B-	-7200#	200#	87	910226.179	1
	6	47	41	88	Nb	-	-76424#	200#	754624#	200#	B-	-3723#	201#	87	917956#	21
	4	46	42	88	Mo	4n	-72700.555	20.347	750118.119	20.348	B-	-10132#	299#	87	921952.728	2
	2	45	43	88	Tc	x	-62568#	298#	739204#	298#	B-	-7070#	585#	87	932830#	32
	0	44	44	88	Ru	x	-55498#	503#	731351#	503#	B-	*		87	940420#	54
0	23	56	33	89	As	x	-47292#	596#	739822#	596#	B-	12305#	667#	88	949230#	64
	21	55	34	89	Se	x	-59597#	298#	751345#	298#	B-	8973#	304#	88	936020#	32
	19	54	35	89	Br	+	-68569.815	59.841	759535.176	59.841	B-	8155.000	30.000	88	926387.260	6
	17	53	36	89	Kr	+	-76724.815	51.778	766907.823	51.778	B-	4985.882	51.450	88	917632.505	5
	15	52	37	89	Rb		-81710.698	5.820	771111.352	5.821	B-	4496.352	5.456	88	912279.939	
	13	51	38	89	Sr		-86207.050	2.211	774825.350	2.214	B-	1495.051	2.239	88	907452.906	
	11	50	39	89	Y		-87702.101	2.345	775538.048	2.349	B-	-2832.685	2.527	88	905847.902	
	9	49	40	89	Zr		-84869.416	3.355	771923.009	3.357	B-	-4291.008	35.655	88	908888.916	
	7	48	41	89	Nb	p2n	-80578.408	35.553	766849.648	35.553	B-	-5575.045	38.406	88	913495.503	3
	5	47	42	89	Mo	+3n	-75003.363	15.460	760492.249	15.461	B-	-7510.000	210.000	88	919480.562	1
	3	46	43	89	Tc	-	-67493.363	210.568	752199.896	210.568	B-	-7980#	545#	88	927542.880	22

1	45	44	89	Ru	x	-59513#	503#	743437#	503#	B-	-12361#	711#	88	936110#	54	
-1	44	45	89	Rh	x	-47152#	503#	730294#	503#	B-	*		88	949380#	54	
0	22	56	34	90	Se	x	-56430#	401#	756249#	401#	B-	8183#	408#	89	939420#	43
20	55	35	90	Br	+	-64613.083	77.389	763649.767	77.389	B-	10350.000	75.000	89	930634.988	8	
18	54	36	90	Kr	+	-74963.083	19.079	773217.413	19.079	B-	4391.865	17.313	89	919523.803	2	
16	53	37	90	Rb		-79354.948	8.015	776826.925	8.016	B-	6586.914	7.802	89	914808.941		
14	52	38	90	Sr		-85941.863	2.727	782631.486	2.730	B-	545.998	1.409	89	907737.596		
12	51	39	90	Y		-86487.861	2.346	782395.131	2.349	B-	2280.077	1.616	89	907151.443		
10	50	40	90	Zr		-88767.938	2.177	783892.854	2.180	B-	-6111.000	4.000	89	904703.679		
8	49	41	90	Nb	-	-82656.938	4.554	776999.501	4.556	B-	-2489.000	4.000	89	911264.109		
6	48	42	90	Mo	-	-80167.938	6.061	773728.147	6.062	B-	-8960.663	242.109	89	913936.161		
4	47	43	90	Tc	-	-71207.275	242.185	763985.131	242.185	B-	-5798#	468#	89	923555.830	25	
2	46	44	90	Ru	x	-65409#	401#	757405#	401#	B-	-12193#	643#	89	929780#	43	
0	45	45	90	Rh	x	-53216#	503#	744429#	503#	B-	*		89	942870#	54	
0	23	57	34	91	Se	x	-50888#	503#	758778#	503#	B-	10623#	508#	90	945370#	54
21	56	35	91	Br	+	-61510.918	72.573	768618.924	72.573	B-	9802.000	44.721	90	933965.300	7	
19	55	36	91	Kr	+	-71312.918	57.156	777638.571	57.156	B-	6435.000	56.569	90	923442.418	6	
17	54	37	91	Rb		-77747.918	8.175	783291.217	8.176	B-	5891.060	9.262	90	916534.160		
15	53	38	91	Sr		-83638.978	5.964	788399.924	5.965	B-	2707.322	5.916	90	910209.845		
13	52	39	91	Y		-86346.300	2.805	790324.893	2.808	B-	1544.833	1.834	90	907303.415		
11	51	40	91	Zr		-87891.133	2.156	791087.372	2.159	B-	-1253.390	2.378	90	905644.968		
9	50	41	91	Nb	-	-86637.743	3.210	789051.629	3.212	B-	-4434.112	11.403	90	906990.538		
7	49	42	91	Mo	+n	-82203.631	11.161	783835.164	11.162	B-	-6220.000	200.000	90	911750.754	1	
5	48	43	91	Tc	-	-75983.631	200.311	776832.810	200.311	B-	-7404.663	538.662	90	918428.200	21	
3	47	44	91	Ru	ep	-68578.969	500.037	768645.794	500.037	B-	-9476#	641#	90	926377.434	53	
1	46	45	91	Rh	x	-59103#	401#	758388#	401#	B-	-12044#	718#	90	936550#	43	
-1	45	46	91	Pd	x	-47059#	596#	745561#	596#	B-	*		90	949480#	64	
0	24	58	34	92	Se	x	-47199#	596#	763160#	596#	B-	9385#	598#	91	949330#	64
22	57	35	92	Br	+	-56583.354	49.674	771762.683	49.674	B-	12204.904	48.192	91	939255.258	5	
20	56	36	92	Kr	+	-68788.258	12.045	783185.234	12.045	B-	5987.000	10.000	91	926152.752	1	
18	55	37	92	Rb		-74775.258	6.714	788389.880	6.715	B-	8099.849	7.312	91	919725.442		
16	54	38	92	Sr		-82875.106	6.805	795707.375	6.806	B-	1940.361	10.056	91	911029.895		
14	53	39	92	Y		-84815.467	9.338	796865.383	9.339	B-	3639.092	9.195	91	908946.832	1	
12	52	40	92	Zr		-88454.559	2.149	799722.121	2.152	B-	-2005.607	1.794	91	905040.106		
10	51	41	92	Nb		-86448.952	2.666	796934.160	2.669	B-	356.514	3.953	91	907193.214		
8	50	42	92	Mo		-86805.466	3.744	796508.321	3.746	B-	-7870.354	25.725	91	906810.480		
6	49	43	92	Tc	-	-78935.111	25.996	787855.613	25.996	B-	-4527#	299#	91	915259.655	2	
4	48	44	92	Ru	x	-74408#	298#	782546#	298#	B-	-11048#	499#	91	920120#	32	
2	47	45	92	Rh	x	-63360#	401#	770716#	401#	B-	-7862#	643#	91	931980#	43	
0	46	46	92	Pd	x	-55498#	503#	762072#	503#	B-	*		91	940420#	54	
0	23	58	35	93	Br	x	-53002#	298#	776253#	298#	B-	11024#	314#	92	943100#	32
21	57	36	93	Kr	+	-64026.001	100.296	786494.300	100.297	B-	8600.000	100.000	92	931265.246	10	
19	56	37	93	Rb		-72626.001	7.705	794311.946	7.707	B-	7461.597	8.677	92	922032.765		
17	55	38	93	Sr		-80087.598	7.856	800991.189	7.857	B-	4136.604	11.812	92	914022.410		

15	54	39	93	Y		-84224.201	10.654	804345.440	10.655	B-	2893.177	10.500	92	909581.582	1	
13	53	40	93	Zr		-87117.379	2.149	806456.264	2.153	B-	91.365	1.571	92	906475.627		
11	52	41	93	Nb		-87208.744	2.236	805765.276	2.239	B-	-404.892	3.500	92	906377.543		
9	51	42	93	Mo		-86803.852	3.744	804578.030	3.746	B-	-3200.855	1.004	92	906812.213		
7	50	43	93	Tc	-p	-83602.997	3.876	800594.821	3.878	B-	-6337.000	85.000	92	910248.473		
5	49	44	93	Ru	-	-77265.997	85.088	793475.468	85.088	B-	-8093#	409#	92	917051.523	9	
3	48	45	93	Rh	x	-69173#	401#	784600#	401#	B-	-9473#	566#	92	925740#	43	
1	47	46	93	Pd	x	-59699#	401#	774344#	401#	B-	*		92	935910#	43	
0	24	59	35	94	Br	x	-47804#	401#	779126#	401#	B-	13337#	501#	93	948680#	43
22	58	36	94	Kr	+	-61141#	300#	791681#	300#	B-	7410#	300#	93	934362#	32	
20	57	37	94	Rb		-68551.124	8.561	798308.392	8.562	B-	10290.651	9.953	93	926407.326		
18	56	38	94	Sr		-78841.774	7.470	807816.689	7.471	B-	3507.865	7.867	93	915359.856		
16	55	39	94	Y		-82349.639	7.672	810542.200	7.674	B-	4916.650	7.483	93	911594.008		
14	54	40	94	Zr		-87266.289	2.342	814676.497	2.346	B-	-901.398	2.213	93	906315.765		
12	53	41	94	Nb		-86364.891	2.236	812992.745	2.240	B-	2045.447	1.939	93	907283.457		
10	52	42	94	Mo		-88410.338	1.826	814255.839	1.831	B-	-4255.745	4.069	93	905087.578		
8	51	43	94	Tc	-	-84154.593	4.460	809217.741	4.461	B-	-1586.576	13.452	93	909656.309		
6	50	44	94	Ru	+nn	-82568.017	12.733	806848.812	12.733	B-	-9630#	447#	93	911359.569	1	
4	49	45	94	Rh	IT	-72938#	447#	796436#	447#	B-	-6588#	600#	93	921698#	48	
2	48	46	94	Pd	x	-66350#	401#	789066#	401#	B-	-13050#	643#	93	928770#	43	
0	47	47	94	Ag	x	-53300#	503#	775234#	503#	B-	*		93	942780#	54	
0	23	59	36	95	Kr	x	-56039#	401#	794650#	401#	B-	9800#	401#	94	939840#	43
21	58	37	95	Rb		-65838.676	19.290	803667.267	19.291	B-	9278.654	19.284	94	929319.260	2	
19	57	38	95	Sr		-75117.330	7.688	812163.567	7.689	B-	6086.850	7.581	94	919358.213		
17	56	39	95	Y		-81204.179	7.644	817468.063	7.645	B-	4453.445	7.458	94	912823.709		
15	55	40	95	Zr		-85657.624	2.329	821139.155	2.333	B-	1124.835	1.888	94	908042.739		
13	54	41	95	Nb		-86782.460	1.875	821481.637	1.879	B-	925.617	0.496	94	906835.178		
11	53	42	95	Mo		-87708.077	1.825	821624.901	1.829	B-	-1690.631	5.082	94	905841.487		
9	52	43	95	Tc		-86017.446	5.387	819151.916	5.388	B-	-2567.453	12.665	94	907656.454		
7	51	44	95	Ru		-83449.993	11.874	815802.110	11.875	B-	-5110.000	150.000	94	910412.729	1	
5	50	45	95	Rh	-	-78339.993	150.469	809909.756	150.469	B-	-8189#	428#	94	915898.541	16	
3	49	46	95	Pd	x	-70151#	401#	800938#	401#	B-	-10051#	566#	94	924690#	43	
1	48	47	95	Ag	x	-60100#	401#	790105#	401#	B-	*		94	935480#	43	
0	24	60	36	96	Kr	x	-53030#	503#	799712#	503#	B-	8184#	504#	95	943070#	54
22	59	37	96	Rb		-61214.086	25.530	807114.000	25.531	B-	11740.072	27.236	95	934283.962	2	
20	58	38	96	Sr		-72954.158	24.621	818071.719	24.621	B-	5386.536	14.811	95	921680.473	2	
18	57	39	96	Y		-78340.695	21.887	822675.902	21.887	B-	7099.951	21.711	95	915897.787	2	
16	56	40	96	Zr		-85440.646	3.209	828993.499	3.211	B-	163.569	4.315	95	908275.675		
14	55	41	96	Nb	+	-85604.215	3.684	828374.715	3.686	B-	3186.800	3.200	95	908100.076		
12	54	42	96	Mo		-88791.015	1.825	830779.162	1.829	B-	-2973.234	5.145	95	904678.904		
10	53	43	96	Tc	-	-85817.781	5.459	827023.574	5.460	B-	254.411	9.533	95	907870.803		
8	52	44	96	Ru		-86072.192	7.882	826495.632	7.883	B-	-6446.432	9.896	95	907597.681		
6	51	45	96	Rh	-	-79625.760	12.651	819266.847	12.652	B-	-3450.000	150.000	95	914518.212	1	
4	50	46	96	Pd	-	-76175.760	150.533	815034.493	150.533	B-	-11605#	428#	95	918221.940	16	

	2	49	47	96	Ag	x	-64571#	401#	802648#	401#	B-	-8467#	643#	95	930680#	43
	0	48	48	96	Cd	x	-56104#	503#	793398#	503#	B-	*		95	939770#	54
0	25	61	36	97	Kr	x	-47916#	503#	802670#	503#	B-	10449#	504#	96	948560#	54
	23	60	37	97	Rb		-58364.738	28.239	812335.975	28.239	B-	10427.241	26.877	96	937342.863	3
	21	59	38	97	Sr		-68791.979	18.961	821980.862	18.961	B-	7468.476	15.705	96	926148.757	2
	19	58	39	97	Y		-76260.455	11.682	828666.985	11.682	B-	6688.406	11.290	96	918131.017	1
	17	57	40	97	Zr		-82948.861	3.086	834573.037	3.088	B-	2658.085	1.907	96	910950.716	
	15	56	41	97	Nb		-85606.946	2.605	836448.769	2.608	B-	1933.885	1.907	96	908097.144	
	13	55	42	97	Mo		-87540.831	1.823	837600.300	1.828	B-	-320.257	4.118	96	906021.033	
	11	54	43	97	Tc		-87220.574	4.500	836497.690	4.502	B-	-1108.202	9.431	96	906364.843	
	9	53	44	97	Ru	-n	-86112.372	8.350	834607.135	8.351	B-	-3523.000	35.355	96	907554.546	
	7	52	45	97	Rh	-	-82589.372	36.328	830301.782	36.328	B-	-4790.000	300.000	96	911336.643	3
	5	51	46	97	Pd	-	-77799.372	302.192	824729.428	302.192	B-	-7006#	502#	96	916478.921	32
	3	50	47	97	Ag	x	-70794#	401#	816941#	401#	B-	-10191#	566#	96	924000#	43
	1	49	48	97	Cd	x	-60603#	401#	805968#	401#	B-	*		96	934940#	43
0	24	61	37	98	Rb		-54302.779	33.502	816345.338	33.503	B-	12325.881	24.434	97	941703.557	3
	22	60	38	98	Sr		-66628.659	25.559	827888.865	25.559	B-	5823.376	9.639	97	928471.177	2
	20	59	39	98	Y		-72452.035	24.006	832929.888	24.006	B-	8824.189	14.569	97	922219.525	2
	18	58	40	98	Zr		-81276.224	19.700	840971.723	19.700	B-	2250.188	20.081	97	912746.366	2
	16	57	41	98	Nb	-pn	-83526.412	5.941	842439.558	5.942	B-	4585.599	5.779	97	910330.690	
	14	56	42	98	Mo		-88112.011	1.824	846242.803	1.828	B-	-1683.997	3.385	97	905407.846	
	12	55	43	98	Tc		-86428.013	3.782	843776.452	3.784	B-	1796.461	7.141	97	907215.692	
	10	54	44	98	Ru		-88224.474	6.271	844790.560	6.272	B-	-5057.378	9.898	97	905287.111	
	8	53	45	98	Rh	-	-83167.096	11.717	838950.828	11.718	B-	-1867.012	24.479	97	910716.431	1
	6	52	46	98	Pd	-pp	-81300.084	21.497	836301.463	21.497	B-	-8420.000	150.000	97	912720.751	2
	4	51	47	98	Ag	-	-72880.084	151.533	827099.110	151.533	B-	-5420#	140#	97	921759.995	16
	2	50	48	98	Cd	-	-67460#	206#	820897#	206#	B-	-13657#	544#	97	927579#	22
	0	49	49	98	In	x	-53803#	503#	806457#	503#	B-	*		97	942240#	54
0	25	62	37	99	Rb		-50840.361	152.281	820954.244	152.281	B-	11276.271	110.396	98	945420.616	16
	23	61	38	99	Sr		-62116.633	139.706	831448.162	139.706	B-	8085.648	138.809	98	933315.038	14
	21	60	39	99	Y		-70202.280	24.392	838751.456	24.392	B-	7567.133	13.985	98	924634.736	2
	19	59	40	99	Zr		-77769.413	20.026	845536.235	20.026	B-	4558.004	14.982	98	916511.084	2
	17	58	41	99	Nb		-82327.417	13.320	849311.886	13.320	B-	3638.662	13.290	98	911617.864	1
	15	57	42	99	Mo		-85966.080	1.826	852168.195	1.831	B-	1357.227	0.959	98	907711.598	
	13	56	43	99	Tc		-87323.307	1.916	852743.069	1.921	B-	293.651	1.417	98	906254.554	
	11	55	44	99	Ru		-87616.958	2.002	852254.366	2.006	B-	-2042.574	6.876	98	905939.307	
	9	54	45	99	Rh		-85574.384	7.134	849429.439	7.136	B-	-3386.591	15.037	98	908132.101	
	7	53	46	99	Pd		-82187.793	15.179	845260.494	15.180	B-	-5430.000	150.000	98	911767.757	1
	5	52	47	99	Ag	-	-76757.793	150.766	839048.141	150.766	B-	-6905#	254#	98	917597.103	16
	3	51	48	99	Cd	x	-69853#	205#	831361#	205#	B-	-8942#	543#	98	925010#	22
	1	50	49	99	In	x	-60910#	503#	821636#	503#	B-	*		98	934610#	54
0	26	63	37	100	Rb	x	-46696#	298#	824881#	298#	B-	13524#	324#	99	949870#	32
	24	62	38	100	Sr	+	-60219.468	127.215	837622.319	127.215	B-	7075.000	100.000	99	935351.729	13
	22	61	39	100	Y	+	-67294.468	78.637	843914.966	78.637	B-	9310.000	70.000	99	927756.402	8

20	60	40	100	Zr	+	-76604.468	35.829	852442.612	35.829	B-	3335.000	25.000	99	917761.704	3	
18	59	41	100	Nb	+	-79939.468	25.666	854995.259	25.666	B-	6245.000	25.000	99	914181.434	2	
16	58	42	100	Mo		-86184.468	5.808	860457.906	5.810	B-	-168.084	5.879	99	907477.149		
14	57	43	100	Tc	-n	-86016.384	2.162	859507.469	2.166	B-	3202.411	1.739	99	907657.594		
12	56	44	100	Ru		-89218.795	2.003	861927.526	2.007	B-	-3630.000	20.000	99	904219.664		
10	55	45	100	Rh	-	-85588.795	20.100	857515.173	20.100	B-	-361.388	22.930	99	908116.630	2	
8	54	46	100	Pd		-85227.407	11.303	856371.431	11.304	B-	-7046.557	77.284	99	908504.596	1	
6	53	47	100	Ag		-78180.851	77.920	848542.521	77.920	B-	-3875.802	67.053	99	916069.387	8	
4	52	48	100	Cd		-74305.049	97.140	843884.366	97.140	B-	-10170.796	390.585	99	920230.232	10	
2	51	49	100	In		-64134.253	382.501	832931.217	382.501	B-	-7270#	200#	99	931149.033	41	
0	50	50	100	Sn	-	-56864#	432#	824879#	432#	B-	*		99	938954#	46	
0	27	64	37	101	Rb	+	-43597.645	166.081	829854.172	166.081	B-	11810.000	110.000	100	953195.994	17
25	63	38	101	Sr	+	-55407.645	124.430	840881.819	124.430	B-	9505.000	80.000	100	940517.434	13	
23	62	39	101	Y	+	-64912.645	95.304	849604.466	95.304	B-	8545.000	90.000	100	930313.395	10	
21	61	40	101	Zr	+	-73457.645	31.349	857367.112	31.350	B-	5485.000	25.000	100	921139.958	3	
19	60	41	101	Nb	+	-78942.645	18.915	862069.759	18.915	B-	4569.000	18.000	100	915251.567	2	
17	59	42	101	Mo		-83511.645	5.811	865856.405	5.813	B-	2824.441	24.295	100	910346.543		
15	58	43	101	Tc		-86336.086	24.141	867898.493	24.141	B-	1613.498	24.094	100	907314.380	2	
13	57	44	101	Ru		-87949.584	2.034	868729.638	2.038	B-	-541.485	17.134	100	905582.219		
11	56	45	101	Rh	+nn	-87408.099	17.233	867405.799	17.234	B-	-1980.000	4.000	100	906163.526	1	
9	55	46	101	Pd	-	-85428.099	17.691	864643.446	17.692	B-	-4203.824	102.899	100	908289.144	1	
7	54	47	101	Ag	-	-81224.275	104.409	859657.269	104.409	B-	-5476.538	108.998	100	912802.135	11	
5	53	48	101	Cd	-	-75747.738	150.936	853398.378	150.936	B-	-7339#	334#	100	918681.442	16	
3	52	49	101	In	x	-68409#	298#	845277#	298#	B-	-8849#	585#	100	926560#	32	
1	51	50	101	Sn	x	-59560#	503#	835646#	503#	B-	*		100	936060#	54	
0	28	65	37	102	Rb	x	-37996#	503#	832323#	503#	B-	15082#	515#	101	959210#	54
26	64	38	102	Sr	+	-53077.643	111.170	846623.140	111.170	B-	8815.000	70.000	101	943018.795	11	
24	63	39	102	Y	+	-61892.643	86.364	854655.786	86.364	B-	9850.000	70.000	101	933555.501	9	
22	62	40	102	Zr	+	-71742.643	50.584	863723.433	50.584	B-	4605.000	30.000	101	922981.089	5	
20	61	41	102	Nb	+	-76347.643	40.728	867546.080	40.728	B-	7210.000	35.000	101	918037.417	4	
18	60	42	102	Mo	-nn	-83557.643	20.826	873973.726	20.827	B-	1009.949	22.526	101	910297.162	2	
16	59	43	102	Tc		-84567.591	9.485	874201.321	9.486	B-	4530.260	9.436	101	909212.938	1	
14	58	44	102	Ru		-89097.851	2.034	877949.228	2.038	B-	-2322.533	4.596	101	904349.503		
12	57	45	102	Rh		-86775.318	4.988	874844.341	4.990	B-	1150.515	4.547	101	906842.845		
10	56	46	102	Pd		-87925.833	3.226	875212.503	3.228	B-	-5954.369	69.966	101	905607.716		
8	55	47	102	Ag	-	-81971.463	70.041	868475.780	70.041	B-	-2587.000	8.000	101	911999.996	7	
6	54	48	102	Cd	-	-79384.463	70.496	865106.426	70.496	B-	-9250.000	380.000	101	914777.255	7	
4	53	49	102	In	-	-70134.463	386.484	855074.073	386.484	B-	-5386#	557#	101	924707.541	41	
2	52	50	102	Sn	x	-64748#	401#	848905#	401#	B-	*		101	930490#	43	
0	27	65	38	103	Sr	x	-47553#	503#	849170#	503#	B-	11187#	585#	102	948950#	54
25	64	39	103	Y	x	-58740#	298#	859574#	298#	B-	9634#	317#	102	936940#	32	
23	63	40	103	Zr	+	-68374.386	108.755	868426.499	108.755	B-	6945.000	85.000	102	926597.062	11	
21	62	41	103	Nb	+	-75319.386	67.842	874589.145	67.843	B-	5530.000	30.000	102	919141.297	7	
19	61	42	103	Mo	+	-80849.386	60.849	879336.792	60.849	B-	3750.000	60.000	102	913204.596	6	

17	60	43	103	Tc	+p	-84599.386	10.129	882304.438	10.130	B-	2659.534	10.056	102	909178.805	1	
15	59	44	103	Ru		-87258.919	2.049	884181.619	2.053	B-	763.355	2.119	102	906323.677		
13	58	45	103	Rh		-88022.274	2.825	884162.620	2.828	B-	-543.081	0.797	102	905504.182		
11	57	46	103	Pd		-87479.193	2.920	882837.185	2.923	B-	-2687.592	16.758	102	906087.204		
9	56	47	103	Ag		-84791.601	16.699	879367.240	16.700	B-	-4141.887	10.424	102	908972.453	1	
7	55	48	103	Cd		-80649.714	15.395	874443.000	15.395	B-	-6050.000	20.000	102	913418.952	1	
5	54	49	103	In	-	-74599.714	25.239	867610.647	25.239	B-	-7653#	299#	102	919913.896	2	
3	53	50	103	Sn	x	-66946#	298#	859175#	298#	B-	-11169#	585#	102	928130#	32	
1	52	51	103	Sb	x	-55778#	503#	847224#	503#	B-	*		102	940120#	54	
0	28	66	38	104	Sr	x	-44404#	699#	854092#	699#	B-	10135#	805#	103	952330#	75
26	65	39	104	Y	x	-54539#	401#	863445#	401#	B-	11802#	566#	103	941450#	43	
24	64	40	104	Zr	x	-66341#	401#	874464#	401#	B-	5888#	415#	103	928780#	43	
22	63	41	104	Nb	+	-72228.533	108.572	879569.616	108.572	B-	8105.000	90.000	103	922459.464	11	
20	62	42	104	Mo	+	-80333.533	60.728	886892.262	60.728	B-	2155.000	40.000	103	913758.387	6	
18	61	43	104	Tc	+	-82488.533	45.693	888264.909	45.694	B-	5602.706	45.555	103	911444.898	4	
16	60	44	104	Ru		-88091.239	3.549	893085.261	3.552	B-	-1141.238	3.923	103	905430.145		
14	59	45	104	Rh	-n	-86950.001	2.826	891161.670	2.829	B-	2440.889	5.187	103	906655.315		
12	58	46	104	Pd		-89390.890	4.746	892820.206	4.748	B-	-4278.646	4.000	103	904034.912		
10	57	47	104	Ag	-	-85112.244	6.207	887759.206	6.208	B-	-1136.294	11.299	103	908628.228		
8	56	48	104	Cd	+nn	-83975.950	9.522	885840.559	9.522	B-	-7908.686	140.947	103	909848.091	1	
6	55	49	104	In	-	-76067.264	141.269	877149.519	141.269	B-	-4515.000	60.000	103	918338.416	15	
4	54	50	104	Sn	-	-71552.264	153.482	871852.166	153.482	B-	-12204#	394#	103	923185.469	16	
2	53	51	104	Sb	+a	-59348#	362#	858866#	362#	B-	*		103	936287#	38	
0	27	66	39	105	Y	x	-51148#	503#	868125#	503#	B-	11215#	643#	104	945090#	54
25	65	40	105	Zr	x	-62364#	401#	878558#	401#	B-	8491#	413#	104	933050#	43	
23	64	41	105	Nb	+	-70854.991	99.813	886267.396	99.813	B-	6485.000	70.000	104	923934.023	10	
21	63	42	105	Mo	+	-77339.991	71.152	891970.043	71.152	B-	4950.000	45.000	104	916972.087	7	
19	62	43	105	Tc	+	-82289.991	55.115	896137.689	55.115	B-	3640.000	55.000	104	911658.043	5	
17	61	44	105	Ru		-85929.991	3.553	898995.336	3.555	B-	1916.919	3.629	104	907750.341		
15	60	45	105	Rh		-87846.909	4.520	900129.901	4.522	B-	566.719	2.544	104	905692.444		
13	59	46	105	Pd		-88413.628	4.698	899914.266	4.700	B-	-1345.252	10.899	104	905084.046		
11	58	47	105	Ag		-87068.376	10.833	897786.661	10.834	B-	-2738.204	4.485	104	906528.234	1	
9	57	48	105	Cd		-84330.172	11.347	894266.103	11.348	B-	-4849.000	13.000	104	909467.818	1	
7	56	49	105	In	-	-79481.172	17.256	888634.750	17.256	B-	-6256.821	90.714	104	914673.434	1	
5	55	50	105	Sn	+a	-73224.351	89.068	881595.576	89.068	B-	-9443.656	178.073	104	921390.409	9	
3	54	51	105	Sb	-p	-63780.695	154.213	871369.566	154.214	B-	*		104	931528.593	16	
0	28	67	39	106	Y	x	-46370#	699#	871418#	699#	B-	13330#	861#	105	950220#	75
26	66	40	106	Zr	x	-59699#	503#	883966#	503#	B-	7191#	585#	105	935910#	54	
24	65	41	106	Nb	x	-66891#	298#	890374#	298#	B-	9367#	299#	105	928190#	32	
22	64	42	106	Mo	+	-76257.412	21.730	898958.786	21.730	B-	3520.000	17.000	105	918134.284	2	
20	63	43	106	Tc	+	-79777.412	13.534	901696.433	13.535	B-	6547.000	11.000	105	914355.408	1	
18	62	44	106	Ru	+	-86324.412	7.885	907461.079	7.886	B-	39.400	0.212	105	907326.913		
16	61	45	106	Rh	+	-86363.812	7.882	906718.126	7.883	B-	3541.100	6.325	105	907284.615		
14	60	46	106	Pd		-89904.912	4.704	909476.873	4.706	B-	-2965.265	2.845	105	903483.087		

12	59	47	106	Ag		-86939.647	5.299	905729.254	5.301	B-	194.145	7.914	105	906666.431		
10	58	48	106	Cd		-87133.792	6.010	905141.046	6.011	B-	-6523.369	12.147	105	906458.007		
8	57	49	106	In		-80610.422	13.539	897835.323	13.540	B-	-3185.092	49.171	105	913461.134	1	
6	56	50	106	Sn		-77425.330	50.687	893867.877	50.687	B-	-11068#	317#	105	916880.472	5	
4	55	51	106	Sb	+a	-66357#	313#	882017#	313#	B-	-8327#	508#	105	928763#	33	
2	54	52	106	Te	-a	-58030#	401#	872908#	401#	B-	*		105	937702#	43	
0	27	67	40	107	Zr	x	-55089#	596#	887426#	596#	B-	9827#	718#	106	940860#	64
25	66	41	107	Nb	x	-64916#	401#	896471#	401#	B-	8025#	432#	106	930310#	43	
23	65	42	107	Mo	+	-72940.884	161.631	903713.581	161.632	B-	6160.000	60.000	106	921694.724	17	
21	64	43	107	Tc	+	-79100.884	150.082	909091.228	150.083	B-	4820.000	85.000	106	915081.691	16	
19	63	44	107	Ru	+	-83920.884	123.692	913128.874	123.692	B-	2940.416	123.109	106	909907.207	13	
17	62	45	107	Rh		-86861.300	11.992	915286.937	11.993	B-	1510.964	13.190	106	906750.540	1	
15	61	46	107	Pd		-88372.264	6.298	916015.548	6.299	B-	33.005	2.992	106	905128.453		
13	60	47	107	Ag		-88405.269	5.569	915266.200	5.570	B-	-1417.000	4.000	106	905093.020		
11	59	48	107	Cd	-	-86988.269	6.856	913066.846	6.858	B-	-3426.000	11.000	106	906614.232		
9	58	49	107	In	-	-83562.269	12.962	908858.493	12.963	B-	-5006.320	87.620	106	910292.195	1	
7	57	50	107	Sn		-78555.949	86.666	903069.819	86.666	B-	-7902#	310#	106	915666.702	9	
5	56	51	107	Sb	x	-70654#	298#	894385#	298#	B-	-10141#	422#	106	924150#	32	
3	55	52	107	Te	-a	-60513#	298#	883462#	298#	B-	*		106	935036#	32	
0	28	68	40	108	Zr	x	-51903#	699#	892312#	699#	B-	8635#	861#	107	944280#	75
26	67	41	108	Nb	x	-60538#	503#	900164#	503#	B-	10648#	541#	107	935010#	54	
24	66	42	108	Mo	+	-71185#	199#	910029#	199#	B-	4750#	150#	107	923579#	21	
22	65	43	108	Tc	+	-75935.404	130.542	913997.071	130.542	B-	7720.000	50.000	107	918479.973	14	
20	64	44	108	Ru	+	-83655.404	120.587	920934.718	120.587	B-	1361.325	59.186	107	910192.211	12	
18	63	45	108	Rh	+	-85016.729	105.063	921513.689	105.063	B-	4505.000	105.000	107	908730.768	11	
16	62	46	108	Pd		-89521.729	3.646	925236.336	3.649	B-	-1918.183	6.447	107	903894.451		
14	61	47	108	Ag	-n	-87603.546	5.601	922535.799	5.603	B-	1649.025	7.909	107	905953.705		
12	60	48	108	Cd		-89252.572	5.706	923402.472	5.707	B-	-5157.011	36.072	107	904183.403		
10	59	49	108	In		-84095.561	36.478	917463.107	36.479	B-	-2091.814	24.730	107	909719.683	3	
8	58	50	108	Sn		-82003.746	43.385	914588.939	43.386	B-	-9496#	209#	107	911965.339	4	
6	57	51	108	Sb	x	-72507#	205#	904310#	205#	B-	-6825#	256#	107	922160#	22	
4	56	52	108	Te	-a	-65682.577	153.538	896703.063	153.538	B-	-12858#	390#	107	929486.838	16	
2	55	53	108	I	-p	-52824#	359#	883062#	359#	B-	*		107	943291#	38	
0	27	68	41	109	Nb	x	-58097#	503#	905795#	503#	B-	9147#	585#	108	937630#	54
25	67	42	109	Mo	x	-67245#	298#	914160#	298#	B-	7623#	365#	108	927810#	32	
23	66	43	109	Tc	+	-74867#	211#	921000#	211#	B-	5985#	200#	108	919627#	22	
21	65	44	109	Ru	+	-80852.209	66.094	926202.845	66.095	B-	4160.000	65.000	108	913201.565	7	
19	64	45	109	Rh	+p	-85012.209	11.978	929580.492	11.979	B-	2591.496	11.869	108	908735.621	1	
17	63	46	109	Pd		-87603.705	3.636	931389.634	3.639	B-	1115.949	1.971	108	905953.535		
15	62	47	109	Ag		-88719.654	3.144	931723.230	3.148	B-	-214.295	2.914	108	904755.514		
13	61	48	109	Cd		-88505.359	4.076	930726.582	4.079	B-	-2019.953	5.855	108	904985.569		
11	60	49	109	In		-86485.406	5.958	927924.275	5.960	B-	-3849.678	11.211	108	907154.078		
9	59	50	109	Sn	+3n	-82635.728	9.940	923292.244	9.941	B-	-6380.000	16.000	108	911286.879	1	
7	58	51	109	Sb	-	-76255.728	18.836	916129.890	18.837	B-	-8681.887	76.088	108	918136.092	2	

5	57	52	109	Te		-67573.840	73.710	906665.649	73.710	B-	-9999.749	170.311	108	927456.483	7	
3	56	53	109	I	-p	-57574.091	153.550	895883.546	153.550	B-	*		108	938191.658	16	
0	28	69	41	110	Nb	x	-53393#	596#	909162#	596#	B-	12063#	718#	109	942680#	64
26	68	42	110	Mo	x	-65456#	401#	920443#	401#	B-	5906#	566#	109	929730#	43	
24	67	43	110	Tc	x	-71362#	401#	925566#	401#	B-	8778#	462#	109	923390#	43	
22	66	44	110	Ru	+	-80139.971	229.389	933561.930	229.389	B-	2810.000	50.000	109	913966.185	24	
20	65	45	110	Rh	IT	-82949.971	223.874	935589.576	223.874	B-	5400.000	223.607	109	910949.525	24	
18	64	46	110	Pd		-88349.971	10.929	940207.223	10.930	B-	-892.440	10.822	109	905152.385	1	
16	63	47	110	Ag		-87457.530	3.144	938532.429	3.147	B-	2892.178	1.617	109	906110.460		
14	62	48	110	Cd		-90349.708	2.965	940642.254	2.968	B-	-3878.000	11.547	109	903005.578		
12	61	49	110	In	-	-86471.708	11.922	935981.900	11.922	B-	-637.052	19.441	109	907168.783	1	
10	60	50	110	Sn	+nn	-85834.656	15.582	934562.494	15.583	B-	-8300#	200#	109	907852.688	1	
8	59	51	110	Sb	-	-77535#	201#	925480#	201#	B-	-5257#	207#	109	916763#	21	
6	58	52	110	Te	-a	-72277.250	53.023	919440.382	53.024	B-	-11929#	313#	109	922407.164	5	
4	57	53	110	I	+a	-60348#	309#	906729#	309#	B-	-8627#	506#	109	935214#	33	
2	56	54	110	Xe	-a	-51721#	401#	897319#	401#	B-	*		109	944476#	43	
0	27	69	42	111	Mo	x	-61004#	503#	924062#	503#	B-	8812#	643#	110	934510#	54
25	68	43	111	Tc	x	-69815#	401#	932091#	401#	B-	6977#	499#	110	925050#	43	
23	67	44	111	Ru	x	-76792#	298#	938286#	298#	B-	5496#	362#	110	917560#	32	
21	66	45	111	Rh	x	-82288#	205#	942999#	205#	B-	3741#	209#	110	911660#	22	
19	65	46	111	Pd	+	-86029.092	40.957	945957.667	40.957	B-	2188.333	40.825	110	907643.952	4	
17	64	47	111	Ag	+	-88217.425	3.285	947363.647	3.288	B-	1036.800	1.414	110	905294.679		
15	63	48	111	Cd		-89254.225	2.965	947618.094	2.969	B-	-865.404	4.683	110	904181.628		
13	62	49	111	In		-88388.821	5.232	945970.336	5.234	B-	-2444.917	7.765	110	905110.677		
11	61	50	111	Sn	+n	-85943.905	7.092	942743.066	7.094	B-	-5100#	200#	110	907735.404		
9	60	51	111	Sb	-	-80844#	200#	936861#	200#	B-	-7368#	213#	110	913210#	21	
7	59	52	111	Te	ep	-73475.687	71.713	928710.141	71.714	B-	-8528#	311#	110	921120.589	7	
5	58	53	111	I	-a	-64947#	302#	919399#	302#	B-	-10578#	427#	110	930276#	32	
3	57	54	111	Xe	-a	-54369#	302#	908039#	302#	B-	*		110	941632#	32	
0	28	70	42	112	Mo	x	-58833#	596#	929962#	596#	B-	7079#	780#	111	936840#	64
26	69	43	112	Tc	x	-65913#	503#	936259#	503#	B-	9955#	737#	111	929240#	54	
24	68	44	112	Ru	+	-75867#	539#	945432#	539#	B-	3670#	200#	111	918553#	57	
22	67	45	112	Rh	+	-79537#	500#	948319#	500#	B-	6800#	500#	111	914613#	53	
20	66	46	112	Pd		-86337.113	17.960	954337.011	17.961	B-	287.967	16.728	111	907313.277	1	
18	65	47	112	Ag		-86625.080	16.892	953842.624	16.893	B-	3955.967	16.728	111	907004.132	1	
16	64	48	112	Cd		-90581.047	2.781	957016.238	2.786	B-	-2585.931	4.725	111	902757.226		
14	63	49	112	In		-87995.116	5.142	953647.953	5.145	B-	663.715	4.725	111	905533.338		
12	62	50	112	Sn		-88658.831	4.220	953529.315	4.223	B-	-7054.976	23.068	111	904820.810		
10	61	51	112	Sb	-	-81603.855	23.450	945691.986	23.451	B-	-4347.260	171.228	111	912394.640	2	
8	60	52	112	Te		-77256.594	169.611	940562.372	169.611	B-	-10161#	271#	111	917061.617	18	
6	59	53	112	I	-a	-67096#	211#	929619#	211#	B-	-7168#	261#	111	927970#	22	
4	58	54	112	Xe	-a	-59927.331	153.666	921668.402	153.666	B-	-13661#	339#	111	935665.350	16	
2	57	55	112	Cs	-p	-46266#	302#	907225#	302#	B-	*		111	950331#	32	
0	29	71	42	113	Mo	x	-53999#	596#	933199#	596#	B-	9967#	843#	112	942030#	64

27	70	43	113	Tc	x	-63966#	596#	942384#	596#	B-	8188#	780#	112	931330#	64
25	69	44	113	Ru	x	-72154#	503#	949789#	503#	B-	6632#	643#	112	922540#	54
23	68	45	113	Rh	x	-78786#	401#	955639#	401#	B-	4908#	402#	112	915420#	43
21	67	46	113	Pd	+	-83693.469	38.854	959764.690	38.854	B-	3340.000	35.000	112	910151.346	4
19	66	47	113	Ag	+	-87033.469	16.871	962322.337	16.872	B-	2016.462	16.641	112	906565.708	1
17	65	48	113	Cd		-89049.931	2.776	963556.445	2.781	B-	316.450	3.314	112	904400.947	
15	64	49	113	In		-89366.381	3.293	963090.542	3.297	B-	-1035.961	2.766	112	904061.223	
13	63	50	113	Sn		-88330.421	3.973	961272.228	3.976	B-	-3916.529	21.714	112	905173.373	
11	62	51	113	Sb	-p	-84413.891	22.044	956573.345	22.045	B-	-6100#	200#	112	909377.941	2
9	61	52	113	Te	-	-78314#	201#	949691#	201#	B-	-7189#	208#	112	915927#	21
7	60	53	113	I	-a	-71124.917	53.430	941719.664	53.431	B-	-9071.438	103.571	112	923644.245	5
5	59	54	113	Xe		-62053.479	88.717	931865.872	88.717	B-	-10388.648	177.443	112	933382.836	9
3	58	55	113	Cs	-p	-51664.830	153.688	920694.870	153.688	B-	*		112	944535.512	16
0 28	71	43	114	Tc	x	-59727#	596#	946217#	596#	B-	11067#	697#	113	935880#	64
26	70	44	114	Ru	+	-70794#	361#	956501#	361#	B-	4800#	200#	113	923999#	38
24	69	45	114	Rh	+	-75594#	301#	960519#	301#	B-	7900#	300#	113	918846#	32
22	68	46	114	Pd		-83494.153	24.534	967636.696	24.534	B-	1450.722	24.830	113	910365.322	2
20	67	47	114	Ag		-84944.875	26.202	968305.065	26.202	B-	5076.442	26.064	113	908807.907	2
18	66	48	114	Cd		-90021.317	2.781	972599.153	2.785	B-	-1451.860	3.274	113	903358.121	
16	65	49	114	In		-88569.457	3.187	970364.940	3.191	B-	1988.685	0.659	113	904916.758	
14	64	50	114	Sn		-90558.142	3.161	971571.272	3.165	B-	-5881.508	201.084	113	902781.816	
12	63	51	114	Sb	-	-84676.634	201.108	964907.410	201.109	B-	-2758#	284#	113	909095.876	21
10	62	52	114	Te	-ea	-81919#	200#	961367#	200#	B-	-9122#	359#	113	912057#	21
8	61	53	114	I	x	-72796#	298#	951462#	298#	B-	-5864#	363#	113	921850#	32
6	60	54	114	Xe	-a	-66932#	207#	944816#	207#	B-	-12366#	368#	113	928145#	22
4	59	55	114	Cs	ep	-54566#	305#	931667#	305#	B-	-8868#	542#	113	941421#	32
2	58	56	114	Ba	x	-45698#	448#	922017#	448#	B-	*		113	950941#	48
0 29	72	43	115	Tc	x	-57492#	699#	952053#	699#	B-	9287#	918#	114	938280#	75
27	71	44	115	Ru	x	-66779#	596#	960557#	596#	B-	7625#	780#	114	928310#	64
25	70	45	115	Rh	+	-74403.374	503.706	967399.594	503.706	B-	6000.000	500.000	114	920124.676	54
23	69	46	115	Pd	+	-80403.374	60.993	972617.240	60.993	B-	4584.000	50.000	114	913683.410	6
21	68	47	115	Ag	+	-84987.374	34.930	976418.887	34.930	B-	3103.485	34.816	114	908762.282	3
19	67	48	115	Cd		-88090.859	2.827	978740.018	2.831	B-	1445.888	4.019	114	905430.553	
17	66	49	115	In		-89536.747	4.226	979403.553	4.229	B-	495.886	3.761	114	903878.328	
15	65	50	115	Sn		-90032.633	2.983	979117.086	2.987	B-	-3030.000	20.000	114	903345.973	
13	64	51	115	Sb	-	-87002.633	20.221	975304.732	20.222	B-	-4638.667	104.318	114	906598.812	2
11	63	52	115	Te	IT	-82363.966	106.260	969883.712	106.260	B-	-5905#	478#	114	911578.627	11
9	62	53	115	I	2p-n	-76459#	466#	963196#	466#	B-	-8029#	523#	114	917918#	50
7	61	54	115	Xe	ep	-68430#	239#	954385#	239#	B-	-8757#	488#	114	926538#	25
5	60	55	115	Cs	-a	-59672#	426#	944845#	426#	B-	-10965#	733#	114	935939#	45
3	59	56	115	Ba	x	-48708#	596#	933098#	596#	B-	*		114	947710#	64
0 28	72	44	116	Ru	x	-65056#	699#	966905#	699#	B-	6005#	861#	115	930160#	75
26	71	45	116	Rh	+	-71061#	503#	972129#	503#	B-	8900#	500#	115	923713#	54
24	70	46	116	Pd	+	-79961.027	55.572	980246.217	55.572	B-	2607.000	30.000	115	914158.288	5

22	69	47	116	Ag	+	-82568.027	46.779	982070.863	46.779	B-	6151.701	46.667	115	911359.558	5	
20	68	48	116	Cd		-88719.729	3.226	987440.211	3.230	B-	-469.996	4.496	115	904755.434		
18	67	49	116	In	-n	-88249.733	4.303	986187.862	4.306	B-	3274.989	3.849	115	905259.995		
16	66	50	116	Sn		-91524.722	2.982	988680.497	2.986	B-	-4706.918	5.142	115	901744.149		
14	65	51	116	Sb		-86817.803	5.880	983191.226	5.882	B-	-1511.831	91.869	115	906797.235		
12	64	52	116	Te		-85305.972	92.004	980897.041	92.004	B-	-7745.149	108.998	115	908420.253	9	
10	63	53	116	I	-	-77560.823	142.637	972369.538	142.637	B-	-4660#	200#	115	916735.014	15	
8	62	54	116	Xe	-	-72901#	246#	966927#	246#	B-	-10411#	429#	115	921738#	26	
6	61	55	116	Cs		-62490.055	351.152	955734.064	351.152	B-	-8165#	613#	115	932914.152	37	
4	60	56	116	Ba	x	-54325#	503#	946786#	503#	B-	*		115	941680#	54	
0	29	73	44	117	Ru	x	-60743#	801#	970664#	801#	B-	8793#	999#	116	934790#	86
27	72	45	117	Rh	x	-69536#	596#	978675#	596#	B-	6996#	667#	116	925350#	64	
25	71	46	117	Pd	x	-76532#	298#	984888#	298#	B-	5734#	302#	116	917840#	32	
23	70	47	117	Ag	+	-82265.638	50.114	989839.796	50.114	B-	4160.000	50.000	116	911684.187	5	
21	69	48	117	Cd	-n	-86425.638	3.378	993217.443	3.381	B-	2517.373	6.218	116	907218.242		
19	68	49	117	In		-88943.010	5.658	994952.462	5.661	B-	1454.962	4.863	116	904515.731		
17	67	50	117	Sn		-90397.972	2.913	995625.070	2.917	B-	-1756.634	8.979	116	902953.765		
15	66	51	117	Sb		-88641.338	9.406	993086.083	9.407	B-	-3534.638	16.588	116	904839.590	1	
13	65	52	117	Te		-85106.700	19.041	988769.092	19.042	B-	-4670.055	69.156	116	908634.180	2	
11	64	53	117	I		-80436.645	71.093	983316.683	71.093	B-	-6442.829	183.986	116	913647.692	7	
9	63	54	117	Xe		-73993.816	179.918	976091.500	179.918	B-	-7521.933	187.779	116	920564.355	19	
7	62	55	117	Cs	IT	-66471.883	53.771	967787.214	53.772	B-	-9520#	651#	116	928639.484	5	
5	61	56	117	Ba	ep	-56952#	648#	957485#	648#	B-	-10386#	1105#	116	938860#	69	
3	60	57	117	La	x	-46565#	894#	946316#	894#	B-	*		116	950010#	96	
0	30	74	44	118	Ru	x	-58656#	904#	976649#	904#	B-	7079#	1142#	117	937030#	97
28	73	45	118	Rh	x	-65736#	699#	982946#	699#	B-	9730#	729#	117	929430#	75	
26	72	46	118	Pd	+	-75465.986	209.933	991893.821	209.933	B-	4100.000	200.000	117	918983.915	22	
24	71	47	118	Ag	+	-79565.986	63.810	995211.467	63.810	B-	7142.918	60.508	117	914582.383	6	
22	70	48	118	Cd	-nn	-86708.904	20.259	1001572.032	20.259	B-	521.190	21.774	117	906914.144	2	
20	69	49	118	In		-87230.094	8.237	1001310.868	8.239	B-	4423.008	7.983	117	906354.623		
18	68	50	118	Sn		-91653.102	2.870	1004951.523	2.875	B-	-3656.632	2.975	117	901606.328		
16	67	51	118	Sb	-	-87996.470	4.134	1000512.537	4.137	B-	-273.210	16.261	117	905531.885		
14	66	52	118	Te		-87723.260	15.787	999456.974	15.788	B-	-7032.818	77.143	117	905825.187	1	
12	65	53	118	I		-80690.442	78.296	991641.803	78.296	B-	-2976.766	1003.145	117	913375.230	8	
10	64	54	118	Xe	+	-77713.676	1000.085	987882.683	1000.085	B-	-9300.000	1000.000	117	916570.920	107	
8	63	55	118	Cs	IT	-68413.676	13.005	977800.330	13.006	B-	-6413#	503#	117	926554.883	1	
6	62	56	118	Ba	x	-62000#	503#	970605#	503#	B-	-12231#	946#	117	933440#	54	
4	61	57	118	La	x	-49770#	801#	957592#	801#	B-	*		117	946570#	86	
0	29	74	45	119	Rh	x	-63938#	801#	989219#	801#	B-	8085#	855#	118	931360#	86
27	73	46	119	Pd	x	-72023#	298#	996522#	298#	B-	6533#	311#	118	922680#	32	
25	72	47	119	Ag	+	-78556.562	89.777	1002273.366	89.777	B-	5350.000	40.000	118	915666.045	9	
23	71	48	119	Cd	+	-83906.562	80.374	1006841.012	80.374	B-	3797.000	80.000	118	909922.582	8	
21	70	49	119	In		-87703.562	7.744	1009855.659	7.746	B-	2363.623	7.728	118	905846.334		
19	69	50	119	Sn		-90067.185	2.798	1011436.929	2.803	B-	-593.902	7.720	118	903308.880		

17	68	51	119	Sb		-89473.283	8.1501010060.673	8.151	B-	-2293.011	2.000	118	903946.460		
15	67	52	119	Te		-87180.271	8.3901006985.308	8.392	B-	-3514.272	63.084	118	906408.110		
13	66	53	119	I		-83665.999	63.4221002688.683	63.423	B-	-5005.343	111.287	118	910180.837	6	
11	65	54	119	Xe		-78660.656	123.424 996900.986	123.424	B-	-6349.607	123.936	118	915554.295	13	
9	64	55	119	Cs		-72311.049	14.099 989769.026	14.100	B-	-8086.343	1019.977	118	922370.879	1	
7	63	56	119	Ba	ep	-64224.707	1019.887 980900.330	1019.887	B-	-9257#	1236#	118	931051.927	109	
5	62	57	119	La	x	-54967#	699# 970861#	699#	B-	-10964#	1142#	118	940990#	75	
3	61	58	119	Ce	x	-44004#	904# 959115#	904#	B-	*		118	952760#	97	
0	30	75	45	120	Rh	x	-59821#	801# 993173#	801#	B-	10945#	896#	119	935780#	86
28	74	46	120	Pd	x	-70766#	401# 1003336#	401#	B-	4882#	407#	119	924030#	43	
26	73	47	120	Ag	+	-75647.912	73.1651007436.039	73.165	B-	8325.000	70.711	119	918788.609	7	
24	72	48	120	Cd	ta	-83972.912	18.7921014978.686	18.793	B-	1760.381	44.247	119	909851.352	2	
22	71	49	120	In	+	-85733.293	40.0791015956.714	40.079	B-	5370.000	40.000	119	907961.505	4	
20	70	50	120	Sn		-91103.293	2.5131020544.360	2.519	B-	-2680.600	7.140	119	902196.571		
18	69	51	120	Sb	-	-88422.693	7.5691017081.406	7.571	B-	982.189	12.689	119	905074.315		
16	68	52	120	Te		-89404.882	10.3081017281.242	10.310	B-	-5615.000	15.000	119	904019.891	1	
14	67	53	120	I	-	-83789.882	18.2011010883.889	18.201	B-	-1960.000	40.000	119	910047.843	1	
12	66	54	120	Xe	-	-81829.882	43.9461008141.535	43.946	B-	-7942.130	45.040	119	912151.990	4	
10	65	55	120	Cs		-73887.752	9.870 999417.052	9.871	B-	-5000.000	300.000	119	920678.219	1	
8	64	56	120	Ba	-	-68887.752	300.162 993634.698	300.162	B-	-11200#	667#	119	926045.941	32	
6	63	57	120	La	x	-57687#	596# 981652#	596#	B-	-7983#	999#	119	938070#	64	
4	62	58	120	Ce	x	-49705#	801# 972887#	801#	B-	*		119	946640#	86	
0	31	76	45	121	Rh	x	-57678#	904# 999102#	904#	B-	9222#	1034#	120	938080#	97
29	75	46	121	Pd	x	-66900#	503# 1007542#	503#	B-	7758#	524#	120	928180#	54	
27	74	47	121	Ag	+	-74658.233	146.8101014517.683	146.810	B-	6400.000	120.000	120	919851.074	15	
25	73	48	121	Cd	+	-81058.233	84.5761020135.329	84.576	B-	4780.000	80.000	120	912980.390	9	
23	72	49	121	In	tp	-85838.233	27.4421024132.976	27.443	B-	3364.538	27.420	120	907848.847	2	
21	71	50	121	Sn		-89202.770	2.4871026715.160	2.493	B-	390.131	2.081	120	904236.867		
19	70	51	121	Sb		-89592.901	2.2661026322.937	2.272	B-	-1035.608	25.155	120	903818.044		
17	69	52	121	Te		-88557.294	25.2161024504.976	25.216	B-	-2269.350	26.086	120	904929.815	2	
15	68	53	121	I		-86287.943	11.1411021453.273	11.142	B-	-3745.010	26.900	120	907366.063	1	
13	67	54	121	Xe	+	-82542.934	24.4871016925.910	24.487	B-	-5400.000	20.000	120	911386.497	2	
11	66	55	121	Cs	IT	-77142.934	14.1281010743.556	14.129	B-	-6802.021	303.531	120	917183.637	1	
9	65	56	121	Ba	ep	-70340.913	303.2021003159.182	303.202	B-	-7940#	587#	120	924485.908	32	
7	64	57	121	La	x	-62401#	503# 994437#	503#	B-	-9930#	861#	120	933010#	54	
5	63	58	121	Ce	x	-52471#	699# 983725#	699#	B-	-10893#	1064#	120	943670#	75	
3	62	59	121	Pr	-p	-41579#	803# 972050#	803#	B-	*		120	955364#	86	
0	30	76	46	122	Pd	x	-65391#	503# 1014104#	503#	B-	6036#	543#	121	929800#	54
28	75	47	122	Ag	x	-71427#	205# 1019358#	205#	B-	9147#	290#	121	923320#	22	
26	74	48	122	Cd	x	-80574#	205# 1027723#	205#	B-	3002#	211#	121	913500#	22	
24	73	49	122	In	+	-83576.327	50.0731029942.393	50.073	B-	6368.591	50.000	121	910277.103	5	
22	72	50	122	Sn		-89944.918	2.6941035528.631	2.699	B-	-1616.399	2.818	121	903440.138		
20	71	51	122	Sb		-88328.519	2.2391033129.878	2.245	B-	1982.545	1.962	121	905175.415		
18	70	52	122	Te		-90311.064	1.8501034330.070	1.858	B-	-4234.000	5.000	121	903047.064		

16	69	53	122	I	-	-86077.064	5.3311029313.716	5.334	B-	-890.457	87.529	121	907592.451		
14	68	54	122	Xe	+	-85186.607	87.3671027640.906	87.367	B-	-7054.714	85.827	121	908548.396	9	
12	67	55	122	Cs		-78131.893	16.3291019803.838	16.329	B-	-3855#	299#	121	916121.946	1	
10	66	56	122	Ba	x	-74277#	298# 1015167#	298#	B-	-9734#	585#	121	920260#	32	
8	65	57	122	La	x	-64543#	503# 1004650#	503#	B-	-6800#	780#	121	930710#	54	
6	64	58	122	Ce	x	-57743#	596# 997068#	596#	B-	-12706#	999#	121	938010#	64	
4	63	59	122	Pr	x	-45038#	801# 983580#	801#	B-	*		121	951650#	86	
0	31	77	46	123	Pd	x	-61236#	596# 1018021#	596#	B-	8719#	667#	122	934260#	64
29	76	47	123	Ag	x	-69955#	298# 1025957#	298#	B-	7355#	301#	122	924900#	32	
27	75	48	123	Cd	+	-77310.567	40.8741032530.309	40.874	B-	6115.000	33.000	122	917003.675	4	
25	74	49	123	In	+	-83425.567	24.1181037862.956	24.119	B-	4393.903	23.968	122	910438.951	2	
23	73	50	123	Sn		-87819.470	2.6811041474.506	2.686	B-	1403.021	2.844	122	905721.901		
21	72	51	123	Sb		-89222.491	2.0051042095.173	2.012	B-	-53.333	1.819	122	904215.696		
19	71	52	123	Te		-89169.158	1.8081041259.487	1.816	B-	-1234.222	3.155	122	904272.951		
17	70	53	123	I		-87934.936	3.6271039242.911	3.631	B-	-2676.000	15.000	122	905597.944		
15	69	54	123	Xe	-	-85258.936	15.4321035784.558	15.433	B-	-4209.812	19.679	122	908470.748	1	
13	68	55	123	Cs		-81049.124	12.2161030792.392	12.217	B-	-5458#	298#	122	912990.168	1	
11	67	56	123	Ba	x	-75591#	298# 1024552#	298#	B-	-6884#	499#	122	918850#	32	
9	66	57	123	La	x	-68707#	401# 1016886#	401#	B-	-8635#	643#	122	926240#	43	
7	65	58	123	Ce	x	-60072#	503# 1007468#	503#	B-	-9734#	861#	122	935510#	54	
5	64	59	123	Pr	x	-50338#	699# 996952#	699#	B-	*		122	945960#	75	
0	30	77	47	124	Ag	x	-66574#	401# 1030647#	401#	B-	10136#	405#	123	928530#	43
28	76	48	124	Cd	+	-76710.101	62.6411040001.166	62.642	B-	4166.000	39.000	123	917648.302	6	
26	75	49	124	In	+	-80876.101	49.0201043384.812	49.020	B-	7360.000	49.000	123	913175.916	5	
24	74	50	124	Sn		-88236.101	1.3921049962.459	1.402	B-	-617.483	2.051	123	905274.630		
22	73	51	124	Sb		-87618.618	2.0051048562.623	2.012	B-	2904.453	1.511	123	905937.525		
20	72	52	124	Te		-90523.071	1.4801050684.722	1.490	B-	-3159.587	1.859	123	902819.466		
18	71	53	124	I	-	-87363.484	2.3771046742.782	2.382	B-	294.024	2.896	123	906211.423		
16	70	54	124	Xe		-87657.508	1.9531046254.453	1.959	B-	-5914.946	12.038	123	905895.774		
14	69	55	124	Cs		-81742.563	11.8901039557.154	11.891	B-	-2647.963	18.143	123	912245.731	1	
12	68	56	124	Ba	x	-79094.600	14.2811036126.838	14.282	B-	-8795#	298#	123	915088.437	1	
10	67	57	124	La	x	-70300#	298# 1026550#	298#	B-	-5580#	585#	123	924530#	32	
8	66	58	124	Ce	x	-64720#	503# 1020188#	503#	B-	-11588#	780#	123	930520#	54	
6	65	59	124	Pr	x	-53132#	596# 1007818#	596#	B-	*		123	942960#	64	
0	31	78	47	125	Ag	x	-64702#	401# 1036846#	401#	B-	8656#	406#	124	930540#	43
29	77	48	125	Cd	+	-73357.777	68.8931044720.165	68.893	B-	7122.000	62.000	124	921247.170	7	
27	76	49	125	In	+	-80479.777	30.0371051059.811	30.038	B-	5418.000	30.000	124	913601.387	3	
25	75	50	125	Sn	-n	-85897.777	1.4971055695.458	1.506	B-	2363.312	2.957	124	907784.924		
23	74	51	125	Sb	+	-88261.089	2.8371057276.416	2.842	B-	766.700	2.121	124	905247.804		
21	73	52	125	Te		-89027.789	1.8841057260.763	1.891	B-	-185.770	0.060	124	904424.718		
19	72	53	125	I	-	-88842.019	1.8851056292.639	1.892	B-	-1652.551	2.568	124	904624.150		
17	71	54	125	Xe		-87189.468	1.9921053857.735	1.999	B-	-3098.740	7.935	124	906398.236		
15	70	55	125	Cs		-84090.728	7.8381049976.642	7.840	B-	-4560.000	250.000	124	909724.871		
13	69	56	125	Ba	-	-79530.728	250.1231044634.288	250.123	B-	-5635#	389#	124	914620.234	26	

11	68	57	125	La	x	-73895#	298#	1038217#	298#	B-	-7331#	499#	124	920670#	32	
9	67	58	125	Ce	x	-66565#	401#	1030103#	401#	B-	-8654#	643#	124	928540#	43	
7	66	59	125	Pr	x	-57911#	503#	1020667#	503#	B-	*		124	937830#	54	
0	32	79	47	126	Ag	x	-61013#	401#	1041229#	401#	B-	11314#	404#	125	934500#	43
30	78	48	126	Cd	+	-72326.776	54.143	1051760.487	54.143	B-	5486.000	36.000	125	922353.996	5	
28	77	49	126	In	+	-77812.776	40.441	1056464.133	40.441	B-	8207.000	39.000	125	916464.532	4	
26	76	50	126	Sn	-nn	-86019.776	10.698	1063888.780	10.699	B-	378.000	30.000	125	907653.953	1	
24	75	51	126	Sb	-	-86397.776	31.850	1063484.426	31.851	B-	3672.517	31.881	125	907248.153	3	
22	74	52	126	Te		-90070.293	1.874	1066374.589	1.882	B-	-2155.331	3.694	125	903305.543		
20	73	53	126	I		-87914.962	3.877	1063436.905	3.881	B-	1258.000	5.000	125	905619.387		
18	72	54	126	Xe	-	-89172.962	6.327	1063912.552	6.329	B-	-4824.286	13.847	125	904268.868		
16	71	55	126	Cs		-84348.676	12.341	1058305.913	12.343	B-	-1673.143	18.433	125	909447.953	1	
14	70	56	126	Ba	x	-82675.533	14.281	1055850.416	14.282	B-	-7569#	298#	125	911244.146	1	
12	69	57	126	La	x	-75106#	298#	1047499#	298#	B-	-4406#	499#	125	919370#	32	
10	68	58	126	Ce	x	-70700#	401#	1042311#	401#	B-	-10442#	643#	125	924100#	43	
8	67	59	126	Pr	x	-60258#	503#	1031086#	503#	B-	-7228#	861#	125	935310#	54	
6	66	60	126	Nd	x	-53030#	699#	1023075#	699#	B-	*		125	943070#	75	
0	33	80	47	127	Ag	x	-58796#	503#	1047083#	503#	B-	9730#	508#	126	936880#	54
31	79	48	127	Cd	+	-68525.512	74.445	1056030.545	74.445	B-	8468.000	63.000	126	926434.822	7	
29	78	49	127	In	+	-76993.512	39.661	1063716.192	39.661	B-	6514.000	31.000	126	917344.048	4	
27	77	50	127	Sn	+	-83507.512	24.739	1069447.839	24.739	B-	3201.000	24.000	126	910350.980	2	
25	76	51	127	Sb	+	-86708.512	6.000	1071866.485	6.003	B-	1581.000	5.000	126	906914.564		
23	75	52	127	Te		-88289.512	3.317	1072665.132	3.321	B-	697.568	4.119	126	905217.290		
21	74	53	127	I		-88987.080	3.691	1072580.346	3.695	B-	-662.442	2.051	126	904468.420		
19	73	54	127	Xe		-88324.638	4.176	1071135.551	4.179	B-	-2084.701	8.785	126	905179.581		
17	72	55	127	Cs		-86239.937	8.745	1068268.496	8.746	B-	-3450.000	100.000	126	907417.600		
15	71	56	127	Ba	-	-82789.937	100.382	1064036.143	100.382	B-	-4693#	245#	126	911121.328	10	
13	70	57	127	La	x	-78096#	224#	1058560#	224#	B-	-6139#	373#	126	916160#	24	
11	69	58	127	Ce	x	-71958#	298#	1051639#	298#	B-	-7526#	499#	126	922750#	32	
9	68	59	127	Pr	x	-64431#	401#	1043331#	401#	B-	-9008#	718#	126	930830#	43	
7	67	60	127	Nd	x	-55424#	596#	1033541#	596#	B-	*		126	940500#	64	
0	32	80	48	128	Cd	+	-67290.542	294.042	1062866.898	294.042	B-	7070.000	290.000	127	927760.617	31
30	79	49	128	In	+	-74360.542	48.590	1069154.545	48.590	B-	8975.600	40.249	127	920170.658	5	
28	78	50	128	Sn	+	-83336.142	27.221	1077347.791	27.221	B-	1273.933	14.519	127	910534.953	2	
26	77	51	128	Sb	IT	-84610.075	25.063	1077839.371	25.064	B-	4383.560	25.000	127	909167.330	2	
24	76	52	128	Te		-88993.635	1.778	1081440.577	1.786	B-	-1251.808	3.933	127	904461.383		
22	75	53	128	I		-87741.827	3.691	1079406.416	3.695	B-	2118.979	3.829	127	905805.254		
20	74	54	128	Xe		-89860.807	1.424	1080743.042	1.434	B-	-3928.559	5.391	127	903530.436		
18	73	55	128	Cs		-85932.247	5.505	1076032.130	5.508	B-	-522.523	12.363	127	907747.919		
16	72	56	128	Ba		-85409.725	11.212	1074727.253	11.213	B-	-6650.000	400.000	127	908308.870	1	
14	71	57	128	La	-	-78759.725	400.157	1067294.900	400.157	B-	-3188#	499#	127	915447.940	42	
12	70	58	128	Ce	x	-75572#	298#	1063325#	298#	B-	-9250#	499#	127	918870#	32	
10	69	59	128	Pr	x	-66322#	401#	1053293#	401#	B-	-6139#	718#	127	928800#	43	
8	68	60	128	Nd	x	-60184#	596#	1046372#	596#	B-	-11988#	1082#	127	935390#	64	

6	67	61	128	Pm	x	-48195#	904#	1033601#	904#	B-	*		127	948260#	97	
0	33	81	48	129	Cd	x	-63099#	401#	1066747#	401#	B-	9876#	420#	128	932260#	43
	31	80	49	129	In	+	-72975.131	126.0281075840.457	126.028	B-	7655.000	32.000	128	921657.958	13	
	29	79	50	129	Sn	+	-80630.131	121.8981082713.103	121.898	B-	3996.000	120.000	128	913439.976	13	
	27	78	51	129	Sb	+	-84626.131	21.4281085926.750	21.428	B-	2379.500	21.213	128	909150.092	2	
	25	77	52	129	Te		-87005.631	3.0231087523.897	3.029	B-	1497.942	3.116	128	906595.593		
	23	76	53	129	I		-88503.573	3.4001088239.485	3.405	B-	193.777	3.390	128	904987.487		
	21	75	54	129	Xe		-88697.350	0.8131087650.909	0.832	B-	-1195.955	4.592	128	904779.458		
	19	74	55	129	Cs		-87501.395	4.6421085672.600	4.645	B-	-2431.553	11.326	128	906063.369		
	17	73	56	129	Ba		-85069.842	11.4541082458.693	11.456	B-	-3720.000	50.000	128	908673.749	1	
	15	72	57	129	La	-	-81349.842	51.2951077956.340	51.296	B-	-5050#	200#	128	912667.334	5	
	13	71	58	129	Ce	-	-76300#	206#	1072124#	206#	B-	-6307#	363#	128	918089#	22
	11	70	59	129	Pr	x	-69992#	298#	1065034#	298#	B-	-7819#	467#	128	924860#	32
	9	69	60	129	Nd	ep	-62173#	359#	1056433#	359#	B-	-9227#	878#	128	933254#	38
	7	68	61	129	Pm	x	-52946#	801#	1046423#	801#	B-	*		128	943160#	86
0	34	82	48	130	Cd	x	-61497#	401#	1073216#	401#	B-	8500#	403#	129	933980#	43
	32	81	49	130	In	+	-69997.161	47.8921080933.809	47.892	B-	10249.000	38.000	129	924854.941	5	
	30	80	50	130	Sn	+	-80246.161	29.1491090400.456	29.149	B-	2147.769	14.861	129	913852.185	3	
	28	79	51	130	Sb	+	-82393.930	25.0751091765.872	25.076	B-	4959.000	25.000	129	911546.459	2	
	26	78	52	130	Te		-87352.930	1.9431095942.518	1.951	B-	-420.351	3.520	129	906222.753		
	24	77	53	130	I		-86932.580	3.4001094739.814	3.405	B-	2949.217	3.426	129	906674.018		
	22	76	54	130	Xe		-89881.796	0.8951096906.678	0.912	B-	-2979.160	8.484	129	903507.903		
	20	75	55	130	Cs		-86902.636	8.4801093145.164	8.482	B-	368.578	10.678	129	906706.163		
	18	74	56	130	Ba		-87271.214	6.8851092731.389	6.887	B-	-5598#	205#	129	906310.478		
	16	73	57	130	La	x	-81673#	205#	1086351#	205#	B-	-2211#	646#	129	912320#	22
	14	72	58	130	Ce	2p-n	-79462#	612#	1083358#	612#	B-	-8091#	681#	129	914694#	65
	12	71	59	130	Pr	x	-71371#	298#	1074484#	298#	B-	-5030#	585#	129	923380#	32
	10	70	60	130	Nd	x	-66341#	503#	1068672#	503#	B-	-10871#	861#	129	928780#	54
	8	69	61	130	Pm	x	-55470#	699#	1057019#	699#	B-	-7620#	1142#	129	940450#	75
	6	68	62	130	Sm	x	-47851#	904#	1048617#	904#	B-	*		129	948630#	97
0	33	82	49	131	In	+	-68215.710	76.1371087223.681	76.137	B-	9173.597	22.198	130	926767.408	8	
	31	81	50	131	Sn	+	-77389.307	72.8291095614.925	72.829	B-	4632.000	20.000	130	916919.144	7	
	29	80	51	131	Sb	+	-82021.307	70.0291099464.571	70.029	B-	3190.000	70.000	130	911946.487	7	
	27	79	52	131	Te	-n	-85211.307	2.0071101872.218	2.015	B-	2233.454	2.308	130	908521.880		
	25	78	53	131	I	+	-87444.761	1.1451103323.318	1.159	B-	970.848	0.605	130	906124.168		
	23	77	54	131	Xe		-88415.608	0.9721103511.812	0.989	B-	-352.395	5.311	130	905081.920		
	21	76	55	131	Cs		-88063.214	5.3541102377.064	5.357	B-	-1369.823	7.003	130	905460.232		
	19	75	56	131	Ba		-86693.390	6.8871100224.888	6.889	B-	-2960.000	100.000	130	906930.798		
	17	74	57	131	La	-	-83733.390	100.2371096482.534	100.237	B-	-4020.000	400.000	130	910108.489	10	
	15	73	58	131	Ce	-	-79713.390	412.3681091680.181	412.368	B-	-5250.000	150.000	130	914424.137	44	
	13	72	59	131	Pr	-	-74463.390	438.8021085647.827	438.802	B-	-6560.000	150.000	130	920060.245	47	
	11	71	60	131	Nd	-	-67903.390	463.7321078305.474	463.732	B-	-8101#	755#	130	927102.697	49	
	9	70	61	131	Pm	x	-59802#	596#	1069422#	596#	B-	-9399#	1082#	130	935800#	64
	7	69	62	131	Sm	x	-50403#	904#	1059241#	904#	B-	*		130	945890#	97

0	34	83	49	132	In	+	-62485.535	65.3741089564.829	65.374	B-	14135.000	60.000	131	932919.005	7
	32	82	50	132	Sn	+	-76620.535	25.9571102917.476	25.958	B-	3103.000	12.000	131	917744.455	2
	30	81	51	132	Sb	+	-79723.535	23.01711105238.122	23.017	B-	5486.000	20.000	131	914413.247	2
	28	80	52	132	Te	+	-85209.535	11.3921109941.769	11.393	B-	493.000	4.000	131	908523.782	1
	26	79	53	132	I	+	-85702.535	10.6661109652.416	10.668	B-	3577.000	10.607	131	907994.525	1
	24	78	54	132	Xe		-89279.535	1.1261112447.062	1.140	B-	-2119.467	3.341	131	904154.457	
	22	77	55	132	Cs		-87160.068	3.2761109545.241	3.281	B-	1279.543	2.193	131	906429.799	
	20	76	56	132	Ba		-88439.611	3.1241110042.431	3.129	B-	-4708.000	44.721	131	905056.152	
	18	75	57	132	La	-	-83731.611	44.8301104552.078	44.831	B-	-1285#	201#	131	910110.399	4
	16	74	58	132	Ce	x	-82447#	196# 1102485#	196#	B-	-7107#	277#	131	911490#	21
	14	73	59	132	Pr	x	-75339#	196# 1094595#	196#	B-	-3726#	357#	131	919120#	21
	12	72	60	132	Nd	x	-71613#	298# 1090087#	298#	B-	-9902#	585#	131	923120#	32
	10	71	61	132	Pm	x	-61711#	503# 1079403#	503#	B-	-6586#	861#	131	933750#	54
	8	70	62	132	Sm	x	-55126#	699# 1072035#	699#	B-	-12426#	1142#	131	940820#	75
	6	69	63	132	Eu	x	-42700#	904# 1058826#	904#	B-	*		131	954160#	97
0	35	84	49	133	In	x	-57436#	401# 1092587#	401#	B-	13531#	409#	132	938340#	43
	33	83	50	133	Sn	+	-70966.712	80.4381105334.975	80.438	B-	7990.000	25.000	132	923814.085	8
	31	82	51	133	Sb	+	-78956.712	76.4541112542.622	76.454	B-	4003.000	13.000	132	915236.466	8
	29	81	52	133	Te	+	-82959.712	75.3411115763.268	75.341	B-	2918.000	70.711	132	910939.068	8
	27	80	53	133	I	+	-85877.712	26.0051117898.915	26.005	B-	1770.588	25.725	132	907806.465	2
	25	79	54	133	Xe	+	-87648.300	3.8051118887.150	3.809	B-	427.360	2.400	132	905905.660	
	23	78	55	133	Cs		-88075.660	2.9521118532.156	2.958	B-	-517.443	0.997	132	905446.870	
	21	77	56	133	Ba		-87558.217	3.1051117232.360	3.110	B-	-2230.000	200.000	132	906002.368	
	19	76	57	133	La	-	-85328.217	200.0241114220.006	200.024	B-	-2938#	280#	132	908396.372	21
	17	75	58	133	Ce	x	-82391#	196# 1110500#	196#	B-	-4331#	277#	132	911550#	21
	15	74	59	133	Pr	x	-78059#	196# 1105386#	196#	B-	-5598#	357#	132	916200#	21
	13	73	60	133	Nd	x	-72461#	298# 1099006#	298#	B-	-6996#	585#	132	922210#	32
	11	72	61	133	Pm	x	-65465#	503# 1091228#	503#	B-	-8393#	780#	132	929720#	54
	9	71	62	133	Sm	x	-57073#	596# 1082053#	596#	B-	-9473#	1082#	132	938730#	64
	7	70	63	133	Eu	x	-47599#	904# 1071797#	904#	B-	*		132	948900#	97
0	36	85	49	134	In	x	-51549#	503# 1094771#	503#	B-	15087#	514#	133	944660#	54
	34	84	50	134	Sn	+	-66635.740	104.8861109075.326	104.886	B-	7370.000	90.000	133	928463.576	11
	32	83	51	134	Sb	+	-74005.740	53.8611115662.973	53.862	B-	8393.699	42.135	133	920551.554	5
	30	82	52	134	Te	+	-82399.438	33.5521123274.318	33.552	B-	1550.000	30.000	133	911540.546	3
	28	81	53	134	I	+	-83949.438	15.0241124041.964	15.025	B-	4175.000	15.000	133	909876.552	1
	26	80	54	134	Xe		-88124.438	0.8451127434.611	0.865	B-	-1228.561	3.070	133	905394.504	
	24	79	55	134	Cs		-86895.877	2.9521125423.696	2.958	B-	2058.669	0.399	133	906713.419	
	22	78	56	134	Ba		-88954.546	2.9631126700.011	2.969	B-	-3713.176	25.725	133	904503.347	
	20	77	57	134	La	-	-85241.369	25.8951122204.482	25.896	B-	-500.000	200.000	133	908489.607	2
	18	76	58	134	Ce	-	-84741.369	201.6691120922.128	201.669	B-	-6190#	219#	133	909026.379	21
	16	75	59	134	Pr	IT	-78551#	298# 1113950#	298#	B-	-2770.000	150.000	133	915672#	32
	14	74	60	134	Nd	-	-75781#	334# 1110397#	334#	B-	-9170.000	200.000	133	918645#	35
	12	73	61	134	Pm	-	-66611#	389# 1100445#	389#	B-	-5151#	636#	133	928490#	41
	10	72	62	134	Sm	x	-61460#	503# 1094511#	503#	B-	-11457#	861#	133	934020#	54

	8	71	63	134	Eu	x	-50003#	699#	1082272#	699#	B-	*		133	946320#	75
0	35	85	50	135	Sn	x	-60799#	401#	1111310#	401#	B-	8907#	414#	134	934730#	43
	33	84	51	135	Sb	+	-69705.584	105.098	1119434.139	105.098	B-	8120.000	50.000	134	925167.962	11
	31	83	52	135	Te	+	-77825.584	92.442	1126771.786	92.442	B-	5962.000	89.443	134	916450.782	9
	29	82	53	135	I		-83787.584	23.356	1131951.432	23.357	B-	2648.061	23.583	134	910050.310	2
	27	81	54	135	Xe		-86435.645	9.956	1133817.140	9.957	B-	1150.950	9.521	134	907207.499	1
	25	80	55	135	Cs		-87586.595	3.115	1134185.737	3.121	B-	269.345	1.195	134	905971.903	
	23	79	56	135	Ba		-87855.940	2.980	1133672.728	2.986	B-	-1200.000	10.000	134	905682.749	
	21	78	57	135	La	-	-86655.940	10.435	1131690.375	10.436	B-	-2025.582	4.667	134	906971.003	1
	19	77	58	135	Ce	-	-84630.357	11.431	1128882.439	11.432	B-	-3720.000	150.000	134	909145.555	1
	17	76	59	135	Pr	-	-80910.357	150.435	1124380.086	150.435	B-	-4751#	254#	134	913139.140	16
	15	75	60	135	Nd	x	-76159#	205#	1118846#	205#	B-	-5940#	250#	134	918240#	22
	13	74	61	135	Pm	IT	-70219#	323#	1112124#	323#	B-	-7203#	598#	134	924617#	34
	11	73	62	135	Sm	x	-63016#	503#	1104138#	503#	B-	-8728#	780#	134	932350#	54
	9	72	63	135	Eu	x	-54287#	596#	1094628#	596#	B-	*		134	941720#	64
0	36	86	50	136	Sn	x	-56504#	503#	1115087#	503#	B-	8085#	585#	135	939340#	54
	34	85	51	136	Sb	x	-64590#	298#	1122390#	298#	B-	9834#	302#	135	930660#	32
	32	84	52	136	Te		-74423.420	48.715	1131440.945	48.715	B-	5074.826	57.527	135	920103.155	5
	30	83	53	136	I		-79498.246	50.156	1135733.417	50.156	B-	6926.196	49.731	135	914655.105	5
	28	82	54	136	Xe		-86424.442	7.158	1141877.260	7.161	B-	-80.308	7.522	135	907219.526	
	26	81	55	136	Cs	+	-86344.134	3.511	1141014.598	3.517	B-	2548.224	1.857	135	907305.741	
	24	80	56	136	Ba		-88892.358	2.980	1142780.469	2.986	B-	-2870.000	70.000	135	904570.109	
	22	79	57	136	La	-	-86022.358	70.063	1139128.116	70.064	B-	472.833	84.731	135	907651.181	7
	20	78	58	136	Ce	+nn	-86495.190	47.754	1138818.595	47.754	B-	-5126.347	18.025	135	907143.574	5
	18	77	59	136	Pr	-	-81368.844	51.042	1132909.895	51.043	B-	-2211.000	25.000	135	912646.935	5
	16	76	60	136	Nd	-	-79157.844	56.836	1129916.541	56.836	B-	-7850.000	200.000	135	915020.542	6
	14	75	61	136	Pm	-	-71307.844	207.919	1121284.188	207.919	B-	-4520#	451#	135	923447.865	22
	12	74	62	136	Sm	x	-66788#	401#	1115982#	401#	B-	-10433#	643#	135	928300#	43
	10	73	63	136	Eu	x	-56355#	503#	1104767#	503#	B-	-7051#	861#	135	939500#	54
	8	72	64	136	Gd	x	-49304#	699#	1096933#	699#	B-	*		135	947070#	75
0	37	87	50	137	Sn	x	-50496#	596#	1117150#	596#	B-	9762#	718#	136	945790#	64
	35	86	51	137	Sb	x	-60258#	401#	1126130#	401#	B-	9301#	419#	136	935310#	43
	33	85	52	137	Te	+	-69559.519	122.472	1134648.367	122.473	B-	6941.600	119.282	136	925324.769	13
	31	84	53	137	I	p-2n	-76501.119	27.771	1140807.613	27.772	B-	5877.460	26.834	136	917872.653	2
	29	83	54	137	Xe	-n	-82378.579	7.164	1145902.720	7.166	B-	4172.566	7.295	136	911562.939	
	27	82	55	137	Cs		-86551.145	2.985	1149292.932	2.991	B-	1175.630	0.172	136	907083.505	
	25	81	56	137	Ba		-87726.774	2.980	1149686.208	2.986	B-	-600.107	47.771	136	905821.414	
	23	80	57	137	La	+	-87126.667	47.782	1148303.748	47.783	B-	-1222.100	1.600	136	906465.656	5
	21	79	58	137	Ce	-n	-85904.567	47.755	1146299.295	47.756	B-	-2702.000	10.000	136	907777.634	5
	19	78	59	137	Pr	-	-83202.567	48.791	1142814.941	48.792	B-	-3690.000	54.000	136	910678.351	5
	17	77	60	137	Nd	-	-79512.567	72.778	1138342.588	72.778	B-	-5657#	114#	136	914639.730	7
	15	76	61	137	Pm	IT	-73856#	135#	1131903#	135#	B-	-5900#	122#	136	920713#	14
	13	75	62	137	Sm	-	-67955.543	114.736	1125220.857	114.736	B-	-7604#	516#	136	927046.709	12
	11	74	63	137	Eu	x	-60351#	503#	1116834#	503#	B-	-8793#	780#	136	935210#	54

9	73	64	137	Gd	x	-51558#	596#	1107259#	596#	B-	*		136	944650#	64	
0	36	87	51	138	Sb	x	-54995#	503#	1128938#	503#	B-	10936#	543#	137	940960#	54
	34	86	52	138	Te	x	-65931#	205#	1139091#	205#	B-	6368#	220#	137	929220#	22
	32	85	53	138	I	+	-72299.139	79.1941144676.956	79.194	B-	7820.000	70.000	137	922383.666	8	
	30	84	54	138	Xe	+	-80119.139	37.0351151714.602	37.036	B-	2774.000	35.777	137	913988.549	3	
	28	83	55	138	Cs		-82893.139	9.5721153706.249	9.574	B-	5374.034	9.095	137	911010.537	1	
	26	82	56	138	Ba		-88267.172	2.9801158297.929	2.986	B-	-1737.751	3.681	137	905241.273		
	24	81	57	138	La	+n	-86529.421	4.1181155777.825	4.122	B-	1044.439	10.580	137	907106.826		
	22	80	58	138	Ce		-87573.860	10.5461156039.910	10.548	B-	-4437.000	10.000	137	905985.574	1	
	20	79	59	138	Pr	-	-83136.860	14.5331150820.557	14.535	B-	-1100#	200#	137	910748.891	1	
	18	78	60	138	Nd	-	-82037#	201#	1148938#	201#	B-	-7000.000	250.000	137	911930#	21
	16	77	61	138	Pm	-	-75037#	320#	1141156#	320#	B-	-3815#	438#	137	919445#	34
	14	76	62	138	Sm	x	-71222#	298#	1136559#	298#	B-	-9231#	499#	137	923540#	32
	12	75	63	138	Eu	x	-61991#	401#	1126545#	401#	B-	-6073#	643#	137	933450#	43
	10	74	64	138	Gd	x	-55918#	503#	1119690#	503#	B-	-12016#	946#	137	939970#	54
	8	73	65	138	Tb	x	-43901#	801#	1106891#	801#	B-	*		137	952870#	86
0	37	88	51	139	Sb	x	-50571#	596#	1132585#	596#	B-	10228#	718#	138	945710#	64
	35	87	52	139	Te	x	-60799#	401#	1142030#	401#	B-	8045#	402#	138	934730#	43
	33	86	53	139	I	+	-68843.542	31.2131149292.682	31.214	B-	6806.000	23.000	138	926093.402	3	
	31	85	54	139	Xe	+	-75649.542	21.1011155316.329	21.102	B-	5057.023	20.655	138	918786.859	2	
	29	84	55	139	Cs		-80706.565	4.3161159590.998	4.320	B-	4212.716	3.122	138	913357.921		
	27	83	56	139	Ba		-84919.280	2.9801163021.360	2.986	B-	2316.834	2.632	138	908835.384		
	25	82	57	139	La		-87236.114	3.2151164555.840	3.221	B-	-278.000	7.000	138	906348.160		
	23	81	58	139	Ce	-	-86958.114	7.7031163495.487	7.706	B-	-2129.000	3.000	138	906646.605		
	21	80	59	139	Pr	-	-84829.114	8.2671160584.133	8.269	B-	-2787.000	50.000	138	908932.181		
	19	79	60	139	Nd	-	-82042.114	50.6791157014.780	50.679	B-	-4504.392	29.096	138	911924.150	5	
	17	78	61	139	Pm	-	-77537.722	58.4371151728.035	58.437	B-	-5162.512	60.308	138	916759.814	6	
	15	77	62	139	Sm	x	-72375.210	14.9041145783.169	14.905	B-	-7020#	150#	138	922302.000	1	
	13	76	63	139	Eu	-	-65355#	151#	1137981#	151#	B-	-7677#	525#	138	929838#	16
	11	75	64	139	Gd	x	-57678#	503#	1129521#	503#	B-	-9268#	861#	138	938080#	54
	9	74	65	139	Tb	x	-48410#	699#	1119471#	699#	B-	*		138	948030#	75
0	36	88	52	140	Te	x	-57101#	503#	1146403#	503#	B-	6977#	547#	139	938700#	54
	34	87	53	140	I	x	-64077#	214#	1152598#	214#	B-	8918#	223#	139	931210#	23
	32	86	54	140	Xe	+	-72995.897	60.6291160734.006	60.629	B-	4060.000	60.000	139	921635.665	6	
	30	85	55	140	Cs		-77055.897	8.7091164011.653	8.711	B-	6220.134	9.879	139	917277.075		
	28	84	56	140	Ba		-83276.031	8.4021169449.433	8.404	B-	1049.731	8.077	139	910599.485		
	26	83	57	140	La		-84325.762	3.2151169716.811	3.221	B-	3761.853	1.884	139	909472.552		
	24	82	58	140	Ce		-88087.615	3.0741172696.311	3.080	B-	-3388.000	6.000	139	905434.035		
	22	81	59	140	Pr	-	-84699.615	6.7421168525.958	6.744	B-	-222.273	19.985	139	909071.204		
	20	80	60	140	Nd	+nn	-84477.342	19.1821167521.331	19.183	B-	-6047.095	23.337	139	909309.824	2	
	18	79	61	140	Pm	-	-78430.247	30.2091160691.882	30.210	B-	-2970.861	33.685	139	915801.649	3	
	16	78	62	140	Sm	x	-75459.386	14.9041156938.668	14.905	B-	-8470.000	50.000	139	918991.000	1	
	14	77	63	140	Eu	-	-66989.386	52.1741147686.315	52.174	B-	-5460#	400#	139	928083.921	5	
	12	76	64	140	Gd	-	-61529#	403#	1141444#	403#	B-	-10800#	800#	139	933945#	43

10	75	65	140	Tb	-	-50729#	896#	1129862#	896#	B-	-7685#	1272#	139	945540#	96	
8	74	66	140	Dy	x	-43044#	904#	1121394#	904#	B-	*		139	953790#	97	
0	37	89	52	141	Te	x	-51800#	503#	1149175#	503#	B-	8905#	585#	140	944390#	54
35	88	53	141	I	x	-60705#	298#	1157297#	298#	B-	7623#	312#	140	934830#	32	
33	87	54	141	Xe	+	-68328.538	90.609	1164137.970	90.609	B-	6150.000	90.000	140	926646.282	9	
31	86	55	141	Cs		-74478.538	10.486	1169505.616	10.488	B-	5251.339	10.605	140	920043.984	1	
29	85	56	141	Ba		-79729.877	8.234	1173974.602	8.237	B-	3213.117	8.614	140	914406.439		
27	84	57	141	La		-82942.993	4.938	1176405.365	4.943	B-	2501.911	3.919	140	910957.016		
25	83	58	141	Ce		-85444.905	3.063	1178124.923	3.070	B-	580.672	1.066	140	908271.103		
23	82	59	141	Pr		-86025.576	3.022	1177923.241	3.028	B-	-1823.002	2.805	140	907647.726		
21	81	60	141	Nd		-84202.574	4.122	1175317.886	4.127	B-	-3727.686	27.100	140	909604.800		
19	80	61	141	Pm		-80474.888	27.216	1170807.846	27.216	B-	-4528.807	26.701	140	913606.636	2	
17	79	62	141	Sm		-75946.081	12.178	1165496.685	12.180	B-	-5977.727	25.584	140	918468.512	1	
15	78	63	141	Eu	-	-69968.353	28.335	1158736.605	28.335	B-	-6822#	299#	140	924885.867	3	
13	77	64	141	Gd	x	-63146#	298#	1151132#	298#	B-	-8337#	667#	140	932210#	32	
11	76	65	141	Tb	x	-54809#	596#	1142013#	596#	B-	-9343#	918#	140	941160#	64	
9	75	66	141	Dy	x	-45466#	699#	1131887#	699#	B-	*		140	951190#	75	
0	38	90	52	142	Te	x	-47972#	596#	1153417#	596#	B-	7750#	718#	141	948500#	64
36	89	53	142	I	x	-55722#	401#	1160385#	401#	B-	9759#	413#	141	940180#	43	
34	88	54	142	Xe	+	-65481.242	100.558	1169361.997	100.559	B-	5040.000	100.000	141	929702.981	10	
32	87	55	142	Cs		-70521.242	10.582	1173619.643	10.584	B-	7306.770	10.289	141	924292.317	1	
30	86	56	142	Ba		-77828.012	6.391	1180144.060	6.394	B-	2211.074	4.486	141	916448.175		
28	85	57	142	La		-80039.086	5.921	1181572.781	5.924	B-	4503.545	5.217	141	914074.489		
26	84	58	142	Ce		-84542.631	3.426	1185293.973	3.432	B-	-745.318	2.396	141	909239.733		
24	83	59	142	Pr		-83797.314	3.021	1183766.302	3.028	B-	2162.203	1.533	141	910039.865		
22	82	60	142	Nd		-85959.517	2.820	1185146.152	2.827	B-	-4873.664	42.423	141	907718.643		
20	81	61	142	Pm	-	-81085.853	42.517	1179490.134	42.517	B-	-2088.908	43.755	141	912950.738	4	
18	80	62	142	Sm		-78996.944	10.697	1176618.872	10.699	B-	-7644.545	28.604	141	915193.274	1	
16	79	63	142	Eu	-	-71352.399	30.539	1168191.973	30.539	B-	-4500#	300#	141	923400.033	3	
14	78	64	142	Gd	-	-66852#	302#	1162910#	302#	B-	-9900#	700#	141	928231#	32	
12	77	65	142	Tb	-	-56952#	762#	1152227#	762#	B-	-6900#	200#	141	938859#	81	
10	76	66	142	Dy	-	-50052#	788#	1144545#	788#	B-	-12662#	1271#	141	946267#	84	
8	75	67	142	Ho	x	-37390#	997#	1131100#	997#	B-	*		141	959860#	107	
0	37	90	53	143	I	x	-52098#	401#	1164833#	401#	B-	8551#	459#	142	944070#	43
35	89	54	143	Xe	x	-60650#	224#	1172602#	224#	B-	7042#	225#	142	934890#	24	
33	88	55	143	Cs		-67691.387	22.284	1178861.111	22.285	B-	6253.219	20.325	142	927330.292	2	
31	87	56	143	Ba		-73944.606	13.331	1184331.977	13.333	B-	4246.250	17.611	142	920617.184	1	
29	86	57	143	La		-78190.856	15.299	1187795.873	15.300	B-	3425.558	15.016	142	916058.646	1	
27	85	58	143	Ce		-81616.413	3.422	1190439.078	3.428	B-	1461.444	1.829	142	912381.158		
25	84	59	143	Pr		-83077.858	3.087	1191118.168	3.094	B-	933.922	1.355	142	910812.233		
23	83	60	143	Nd		-84011.780	2.819	1191269.737	2.826	B-	-1041.359	2.383	142	909809.626		
21	82	61	143	Pm		-82970.420	3.652	1189446.024	3.657	B-	-3442.786	3.552	142	910927.571		
19	81	62	143	Sm		-79527.634	4.029	1185220.885	4.034	B-	-5275.123	13.733	142	914623.555		
17	80	63	143	Eu		-74252.511	13.371	1179163.408	13.373	B-	-6010.000	200.000	142	920286.634	1	

15	79	64	143	Gd	-	-68242.511	200.4461172371.055	200.447	B-	-7463#	448#	142	926738.636	21
13	78	65	143	Tb	x	-60780#	401# 1164126#	401#	B-	-8458#	643#	142	934750#	43
11	77	66	143	Dy	x	-52322#	503# 1154886#	503#	B-	-10116#	861#	142	943830#	54
9	76	67	143	Ho	x	-42206#	699# 1143987#	699#	B-	*		142	954690#	75
0 38	91	53	144	I	x	-46938#	503# 1167744#	503#	B-	10600#	594#	143	949610#	54
36	90	54	144	Xe	x	-57538#	317# 1177562#	317#	B-	5778#	318#	143	938230#	34
34	89	55	144	Cs		-63316.084	28.4721182557.132	28.473	B-	8464.396	27.046	143	932027.373	3
32	88	56	144	Ba		-71780.481	13.8461190239.175	13.848	B-	3119.389	55.508	143	922940.468	1
30	87	57	144	La		-74899.869	55.9601192576.210	55.961	B-	5541.438	55.944	143	919591.666	6
28	86	58	144	Ce		-80441.308	3.7941197335.295	3.800	B-	318.655	0.832	143	913642.686	
26	85	59	144	Pr		-80759.963	3.7021196871.597	3.707	B-	2997.516	2.399	143	913300.595	
24	84	60	144	Nd		-83757.479	2.8191199086.759	2.827	B-	-2331.659	2.230	143	910082.629	
22	83	61	144	Pm		-81425.820	3.5571195972.747	3.563	B-	550.549	2.541	143	912585.768	
20	82	62	144	Sm		-81976.369	3.2791195740.942	3.285	B-	-6314.957	17.280	143	911994.730	
18	81	63	144	Eu	-	-75661.412	17.5881188643.632	17.589	B-	-3740#	200#	143	918774.116	1
16	80	64	144	Gd	-	-71921#	201# 1184121#	201#	B-	-9074#	359#	143	922789#	21
14	79	65	144	Tb	x	-62848#	298# 1174265#	298#	B-	-6092#	499#	143	932530#	32
12	78	66	144	Dy	x	-56756#	401# 1167391#	401#	B-	-11709#	718#	143	939070#	43
10	77	67	144	Ho	x	-45047#	596# 1154900#	596#	B-	-8337#	999#	143	951640#	64
8	76	68	144	Er	x	-36710#	801# 1145781#	801#	B-	*		143	960590#	86
0 37	91	54	145	Xe	x	-52471#	401# 1180566#	401#	B-	7714#	404#	144	943670#	43
35	90	55	145	Cs		-60185.471	50.0861187497.841	50.087	B-	7884.554	39.684	144	935388.226	5
33	89	56	145	Ba		-68070.025	59.5831194600.042	59.584	B-	4923.352	65.328	144	926923.807	6
31	88	57	145	La		-72993.377	68.5041198741.041	68.504	B-	4108.352	65.328	144	921638.370	7
29	87	58	145	Ce		-77101.730	39.6331202067.040	39.634	B-	2534.571	39.014	144	917227.871	4
27	86	59	145	Pr		-79636.301	7.6121203819.257	7.614	B-	1805.282	7.062	144	914506.897	
25	85	60	145	Nd		-81441.582	2.8431204842.185	2.851	B-	-163.041	2.184	144	912568.847	
23	84	61	145	Pm		-81278.541	3.5111203896.791	3.517	B-	-616.399	2.412	144	912743.879	
21	83	62	145	Sm		-80662.142	3.2841202498.038	3.290	B-	-2660.043	2.751	144	913405.611	
19	82	63	145	Eu		-78002.099	4.2491199055.642	4.254	B-	-5054.484	36.236	144	916261.285	
17	81	64	145	Gd	-	-72947.615	36.4851193218.804	36.485	B-	-6700#	224#	144	921687.498	3
15	80	65	145	Tb	IT	-66248#	227# 1185736#	227#	B-	-7520#	200#	144	928880#	24
13	79	66	145	Dy	-	-58728#	302# 1177434#	302#	B-	-9247#	668#	144	936953#	32
11	78	67	145	Ho	x	-49481#	596# 1167405#	596#	B-	-9855#	918#	144	946880#	64
9	77	68	145	Er	x	-39626#	699# 1156768#	699#	B-	*		144	957460#	75
0 38	92	54	146	Xe	x	-49090#	401# 1185256#	401#	B-	6649#	408#	145	947300#	43
36	91	55	146	Cs		-55738.704	80.1561191122.397	80.156	B-	9366.528	37.314	145	940162.028	8
34	90	56	146	Ba		-65105.231	78.3171199706.571	78.317	B-	4104.626	42.981	145	930106.645	8
32	89	57	146	La		-69209.858	73.9811203028.844	73.981	B-	6530.167	47.126	145	925700.146	7
30	88	58	146	Ce		-75740.025	65.1781208776.657	65.178	B-	1026.232	35.434	145	918689.722	6
28	87	59	146	Pr		-76766.257	58.2801209020.536	58.280	B-	4169.252	58.218	145	917588.016	6
26	86	60	146	Nd		-80935.509	2.8441212407.435	2.851	B-	-1471.785	4.173	145	913112.139	
24	85	61	146	Pm	+	-79463.724	4.9771210153.297	4.981	B-	1542.000	3.000	145	914692.165	
22	84	62	146	Sm		-81005.724	3.9711210912.943	3.977	B-	-3877.767	6.358	145	913036.760	

20	83	63	146	Eu		-77127.958	7.1621206252.823	7.165	B-	-1029.888	7.725	145	917199.714	
18	82	64	146	Gd	+nn	-76098.070	5.1721204440.582	5.176	B-	-8267.273	45.227	145	918305.344	
16	81	65	146	Tb	-	-67830.797	45.5211195390.956	45.522	B-	-5160.000	100.000	145	927180.629	4
14	80	66	146	Dy	-	-62670.797	109.8741189448.603	109.874	B-	-10600#	515#	145	932720.118	11
12	79	67	146	Ho	x	-52071#	503# 1178066#	503#	B-	-7471#	780#	145	944100#	54
10	78	68	146	Er	x	-44600#	596# 1169813#	596#	B-	-13390#	918#	145	952120#	64
8	77	69	146	Tm	-p	-31210#	699# 1155641#	699#	B-	*		145	966495#	75
0 39	93	54	147	Xe	x	-43771#	503# 1188008#	503#	B-	8519#	525#	146	953010#	54
37	92	55	147	Cs		-52289.934	150.2451195744.949	150.246	B-	9195.630	176.275	146	943864.435	16
35	91	56	147	Ba	+	-61485.563	92.2631204158.226	92.263	B-	5750.000	50.000	146	933992.519	9
33	90	57	147	La	+	-67235.563	77.5401209125.872	77.540	B-	4945.000	55.000	146	927819.639	8
31	89	58	147	Ce	+	-72180.563	54.6571213288.519	54.658	B-	3290.000	40.000	146	922510.962	5
29	88	59	147	Pr	+	-75470.563	37.2481215796.165	37.249	B-	2685.690	37.139	146	918979.001	3
27	87	60	147	Nd		-78156.253	2.8461217699.502	2.853	B-	896.000	0.904	146	916095.794	
25	86	61	147	Pm		-79052.253	2.8901217813.148	2.897	B-	224.139	0.301	146	915133.898	
23	85	62	147	Sm		-79276.392	2.8911217254.933	2.898	B-	-1721.336	2.276	146	914893.275	
21	84	63	147	Eu		-77555.055	3.5981214751.244	3.603	B-	-2187.371	2.769	146	916741.206	
19	83	64	147	Gd		-75367.684	3.5121211781.519	3.518	B-	-4608.780	11.500	146	919089.446	
17	82	65	147	Tb		-70758.904	12.0231206390.385	12.024	B-	-6372.647	51.450	146	924037.176	1
15	81	66	147	Dy	-	-64386.257	52.8361199235.385	52.836	B-	-8348#	404#	146	930878.496	5
13	80	67	147	Ho	x	-56039#	401# 1190105#	401#	B-	-8821#	643#	146	939840#	43
11	79	68	147	Er	x	-47217#	503# 1180502#	503#	B-	-10965#	780#	146	949310#	54
9	78	69	147	Tm	-p	-36253#	596# 1168755#	596#	B-	*		146	961081#	64
0 38	93	55	148	Cs		-47599.766	587.8851199126.104	587.885	B-	10448.718	604.525	147	948899.539	63
36	92	56	148	Ba	+	-58048.483	140.9121208792.468	140.912	B-	5115.000	60.000	147	937682.377	15
34	91	57	148	La	+	-63163.483	127.5001213125.115	127.500	B-	7262.354	51.191	147	932191.197	13
32	90	58	148	Ce	+	-70425.837	116.7721219605.115	116.772	B-	2060.000	75.000	147	924394.738	12
30	89	59	148	Pr	+	-72485.837	89.5021220882.762	89.502	B-	4932.000	89.443	147	922183.237	9
28	88	60	148	Nd		-77417.837	3.2581225032.408	3.265	B-	-539.586	6.322	147	916888.516	
26	87	61	148	Pm	+p	-76878.251	6.6741223710.469	6.677	B-	2468.339	6.073	147	917467.786	
24	86	62	148	Sm		-79346.590	2.9061225396.454	2.913	B-	-3107.333	17.321	147	914817.914	
22	85	63	148	Eu	-	-76239.256	17.5631221506.768	17.564	B-	40.989	17.434	147	918153.775	1
20	84	64	148	Gd		-76280.245	3.2791220765.403	3.285	B-	-5764.889	30.354	147	918109.771	
18	83	65	148	Tb	-	-70515.356	30.5311214218.160	30.531	B-	-2682.000	10.000	147	924298.636	3
16	82	66	148	Dy	-	-67833.356	32.1271210753.807	32.127	B-	-9400#	269#	147	927177.882	3
14	81	67	148	Ho	IT	-58433#	271# 1200571#	271#	B-	-6680#	484#	147	937269#	29
12	80	68	148	Er	x	-51754#	401# 1193110#	401#	B-	-12212#	805#	147	944440#	43
10	79	69	148	Tm	x	-39542#	699# 1180115#	699#	B-	-8579#	1063#	147	957550#	75
8	78	70	148	Yb	x	-30963#	801# 1170754#	801#	B-	*		147	966760#	86
0 39	94	55	149	Cs	x	-44041#	298# 1203639#	298#	B-	9557#	499#	148	952720#	32
37	93	56	149	Ba	x	-53598#	401# 1212413#	401#	B-	7536#	499#	148	942460#	43
35	92	57	149	La	x	-61134#	298# 1219167#	298#	B-	5664#	308#	148	934370#	32
33	91	58	149	Ce	+	-66798.164	75.7471224048.765	75.747	B-	4190.000	75.000	148	928289.207	8
31	90	59	149	Pr	+p	-70988.164	10.6121227456.411	10.614	B-	3397.033	10.362	148	923791.056	1

29	89	60	149	Nd		-74385.196	3.2591230071.091	3.266	B-	1690.657	3.450	148	920144.190	
27	88	61	149	Pm		-76075.853	4.4521230979.394	4.457	B-	1070.915	3.512	148	918329.195	
25	87	62	149	Sm		-77146.768	2.9221231267.955	2.929	B-	-695.268	3.832	148	917179.521	
23	86	63	149	Eu		-76451.500	4.7081229790.334	4.713	B-	-1313.877	4.190	148	917925.922	
21	85	64	149	Gd		-75137.623	4.2861227694.104	4.291	B-	-3637.673	4.499	148	919336.427	
19	84	65	149	Tb		-71499.950	4.7911223274.077	4.795	B-	-3812.000	10.000	148	923241.630	
17	83	66	149	Dy	-	-67687.950	11.0881218679.724	11.090	B-	-6013.690	18.570	148	927333.981	1
15	82	67	149	Ho	-	-61674.261	21.6281211883.681	21.629	B-	-7810#	472#	148	933789.944	2
13	81	68	149	Er	ep	-53864#	471# 1203291#	471#	B-	-9758#	760#	148	942174#	50
11	80	69	149	Tm	x	-44106#	596# 1192751#	596#	B-	-10088#	918#	148	952650#	64
9	79	70	149	Yb	x	-34018#	699# 1181881#	699#	B-	*		148	963480#	75
0 40	95	55	150	Cs	x	-39151#	503# 1206820#	503#	B-	11504#	711#	149	957970#	54
38	94	56	150	Ba	x	-50655#	503# 1217541#	503#	B-	6567#	643#	149	945620#	54
36	93	57	150	La	x	-57222#	401# 1223326#	401#	B-	7772#	418#	149	938570#	43
34	92	58	150	Ce	+	-64993.681	120.4681230315.605	120.468	B-	3010.000	90.000	149	930226.399	12
32	91	59	150	Pr	+	-68003.681	80.0791232543.251	80.079	B-	5690.000	80.000	149	926995.031	8
30	90	60	150	Nd		-73693.681	3.5511237450.898	3.557	B-	-86.548	20.122	149	920886.563	
28	89	61	150	Pm	+	-73607.132	20.2081236581.996	20.209	B-	3454.000	20.000	149	920979.477	2
26	88	62	150	Sm		-77061.132	2.8901239253.643	2.898	B-	-2260.587	6.466	149	917271.454	
24	87	63	150	Eu		-74800.546	7.0101236210.703	7.013	B-	971.398	3.557	149	919698.294	
22	86	64	150	Gd		-75771.944	6.9471236399.748	6.950	B-	-4656.261	8.758	149	918655.455	
20	85	65	150	Tb		-71115.684	8.2691230961.133	8.271	B-	-1793.657	8.907	149	923654.158	
18	84	66	150	Dy	-a	-69322.027	5.3981228385.123	5.402	B-	-7240#	100#	149	925579.728	
16	83	67	150	Ho	-	-62082#	100# 1220363#	100#	B-	-4108.000	15.000	149	933352#	10
14	82	68	150	Er	-	-57974#	101# 1215472#	101#	B-	-11092#	513#	149	937762#	10
12	81	69	150	Tm	x	-46882#	503# 1203598#	503#	B-	-7750#	780#	149	949670#	54
10	80	70	150	Yb	x	-39132#	596# 1195066#	596#	B-	-13672#	918#	149	957990#	64
8	79	71	150	Lu	-p	-25460#	699# 1180611#	699#	B-	*		149	972668#	75
0 41	96	55	151	Cs	x	-35397#	699# 1211137#	699#	B-	10526#	918#	150	962000#	75
39	95	56	151	Ba	x	-45923#	596# 1220881#	596#	B-	8514#	780#	150	950700#	64
37	94	57	151	La	x	-54437#	503# 1228612#	503#	B-	7005#	585#	150	941560#	54
35	93	58	151	Ce	x	-61441#	298# 1234835#	298#	B-	5414#	300#	150	934040#	32
33	92	59	151	Pr	+	-66855.300	35.4731239466.193	35.474	B-	4101.488	35.294	150	928227.869	3
31	91	60	151	Nd	-n	-70956.788	3.5561242785.327	3.563	B-	2442.420	4.498	150	923824.739	
29	90	61	151	Pm		-73399.207	5.5651244445.394	5.569	B-	1187.042	4.811	150	921202.693	
27	89	62	151	Sm		-74586.250	2.8911244850.083	2.898	B-	76.689	0.544	150	919928.351	
25	88	63	151	Eu		-74662.939	2.9041244144.418	2.912	B-	-464.118	2.779	150	919846.022	
23	87	64	151	Gd		-74198.821	3.9881242897.947	3.994	B-	-2565.237	3.763	150	920344.273	
21	86	65	151	Tb		-71633.583	4.8401239550.356	4.845	B-	-2870.363	5.155	150	923098.169	
19	85	66	151	Dy	-a	-68763.221	4.3951235897.640	4.400	B-	-5124.297	11.947	150	926179.630	
17	84	67	151	Ho		-63638.923	12.1671229990.989	12.168	B-	-5383#	298#	150	931680.791	1
15	83	68	151	Er	x	-58256#	298# 1223825#	298#	B-	-7427#	327#	150	937460#	32
13	82	69	151	Tm	IT	-50828#	135# 1215616#	135#	B-	-9143#	313#	150	945434#	14
11	81	70	151	Yb	ep	-41685#	317# 1205690#	317#	B-	-11083#	682#	150	955249#	34

9	80	71	151	Lu	IT	-30602#	604#	1193825#	604#	B-	*		150	967147#	64	
0	40	96	56	152	Ba	x	-42700#	699#	1225729#	699#	B-	7499#	918#	151	954160#	75
38	95	57	152	La	x	-50198#	596#	1232445#	596#	B-	9063#	718#	151	946110#	64	
36	94	58	152	Ce	x	-59262#	401#	1240726#	401#	B-	4453#	499#	151	936380#	43	
34	93	59	152	Pr	x	-63714#	298#	1244396#	298#	B-	6444#	300#	151	931600#	32	
32	92	60	152	Nd	-nn	-70157.856	30.2091250057.718	30.210	B-	1110.220	77.770	151	924682.428	3		
30	91	61	152	Pm	+	-71268.076	71.7731250385.585	71.773	B-	3504.571	71.714	151	923490.557	7		
28	90	62	152	Sm		-74772.647	2.9151253107.803	2.923	B-	-1874.310	0.745	151	919728.244			
26	89	63	152	Eu		-72898.338	2.9041250451.140	2.912	B-	1818.758	1.081	151	921740.399			
24	88	64	152	Gd		-74717.096	2.9541251487.545	2.961	B-	-3990.000	40.000	151	919787.882			
22	87	65	152	Tb	-	-70727.096	40.1091246715.191	40.109	B-	-598.532	40.301	151	924071.324	4		
20	86	66	152	Dy	-a	-70128.564	5.4511245334.306	5.455	B-	-6545.350	30.694	151	924713.874			
18	85	67	152	Ho	-a	-63583.214	30.5601238006.602	30.561	B-	-3109.190	10.219	151	931740.598	3		
16	84	68	152	Er	-a	-60474.024	32.1681234115.059	32.168	B-	-8590#	300#	151	935078.452	3		
14	83	69	152	Tm	x	-51884#	298#	1224743#	298#	B-	-5465.000	195.000	151	944300#	32	
12	82	70	152	Yb	-	-46419#	356#	1218496#	356#	B-	-12522#	784#	151	950167#	38	
10	81	71	152	Lu	x	-33897#	699#	1205191#	699#	B-	*		151	963610#	75	
0	41	97	56	153	Ba	x	-37623#	904#	1228724#	904#	B-	9464#	1142#	152	959610#	97
39	96	57	153	La	x	-47087#	699#	1237405#	699#	B-	8262#	861#	152	949450#	75	
37	95	58	153	Ce	x	-55349#	503#	1244885#	503#	B-	6455#	585#	152	940580#	54	
35	94	59	153	Pr	x	-61805#	298#	1250558#	298#	B-	5547#	299#	152	933650#	32	
33	93	60	153	Nd	+	-67352.098	27.3961255323.284	27.397	B-	3336.000	25.000	152	927694.534	2		
31	92	61	153	Pm		-70688.098	11.2041257876.930	11.206	B-	1880.950	10.827	152	924113.189	1		
29	91	62	153	Sm		-72569.048	2.9241258975.526	2.932	B-	808.246	0.786	152	922093.907			
27	90	63	153	Eu		-73377.294	2.9061259001.419	2.913	B-	-484.437	1.074	152	921226.219			
25	89	64	153	Gd		-72892.857	2.9511257734.629	2.959	B-	-1569.171	3.899	152	921746.283			
23	88	65	153	Tb		-71323.686	4.7691255383.104	4.774	B-	-2170.387	1.936	152	923430.858			
21	87	66	153	Dy		-69153.298	4.8141252430.363	4.818	B-	-4129.909	6.339	152	925760.865			
19	86	67	153	Ho	-a	-65023.389	5.9541247518.101	5.958	B-	-4563.034	10.711	152	930194.506			
17	85	68	153	Er	-a	-60460.355	11.1891242172.713	11.190	B-	-6459.450	18.682	152	935093.125	1		
15	84	69	153	Tm	-a	-54000.905	21.6731234930.910	21.674	B-	-6690#	299#	152	942027.631	2		
13	83	70	153	Yb	x	-47311#	298#	1227458#	298#	B-	-8831#	667#	152	949210#	32	
11	82	71	153	Lu	x	-38480#	596#	1217845#	596#	B-	*		152	958690#	64	
0	40	97	57	154	La	x	-42476#	801#	1240866#	801#	B-	10321#	999#	153	954400#	86
38	96	58	154	Ce	x	-52797#	596#	1250404#	596#	B-	5524#	718#	153	943320#	64	
36	95	59	154	Pr	x	-58321#	401#	1255146#	401#	B-	7365#	416#	153	937390#	43	
34	94	60	154	Nd	+	-65685.878	114.0191261728.386	114.019	B-	2735.123	135.678	153	929483.295	12		
32	93	61	154	Pm	+	-68421.001	73.6611263681.156	73.661	B-	4044.281	73.601	153	926547.019	7		
30	92	62	154	Sm		-72465.282	2.9721266943.084	2.980	B-	-717.327	1.096	153	922205.303			
28	91	63	154	Eu		-71747.955	2.9141265443.403	2.921	B-	1968.354	1.057	153	922975.386			
26	90	64	154	Gd		-73716.308	2.9471266629.403	2.955	B-	-3562.000	50.000	153	920862.271			
24	89	65	154	Tb	-	-70154.308	50.0871262285.050	50.087	B-	246.091	50.679	153	924686.236	5		
22	88	66	154	Dy	-a	-70400.400	8.6381261748.788	8.640	B-	-5751.249	10.781	153	924422.046			
20	87	67	154	Ho	-a	-64649.151	9.0301255215.185	9.033	B-	-2031.613	9.975	153	930596.268			

18	86	68	154	Er	-a	-62617.538	6.0101252401.219	6.013	B-	-8054#	112#	153	932777.294			
16	85	69	154	Tm	-a	-54564#	112#	1243565#	112#	B-	-4488.701	52.236	153	941424#	12	
14	84	70	154	Yb	-a	-50075#	101#	1238294#	101#	B-	-10114#	513#	153	946242#	10	
12	83	71	154	Lu	x	-39961#	503#	1227398#	503#	B-	-6660#	861#	153	957100#	54	
10	82	72	154	Hf	x	-33301#	699#	1219955#	699#	B-	*		153	964250#	75	
0	41	98	57	155	La	x	-39002#	904#	1245463#	904#	B-	9399#	1142#	154	958130#	97
39	97	58	155	Ce	x	-48400#	699#	1254079#	699#	B-	7499#	861#	154	948040#	75	
37	96	59	155	Pr	x	-55899#	503#	1260795#	503#	B-	6856#	526#	154	939990#	54	
35	95	60	155	Nd	+	-62755.159	153.0001266868.990	153.000	B-	4222.000	150.000	154	932629.551	16		
33	94	61	155	Pm	+	-66977.159	30.1481270308.637	30.149	B-	3224.000	30.000	154	928097.047	3		
31	93	62	155	Sm	-n	-70201.159	2.9871272750.283	2.995	B-	1626.864	1.198	154	924635.940			
29	92	63	155	Eu		-71828.023	2.9381273594.794	2.945	B-	252.089	1.131	154	922889.429			
27	91	64	155	Gd		-72080.112	2.9491273064.530	2.956	B-	-821.215	11.878	154	922618.801			
25	90	65	155	Tb	+	-71258.898	12.1961271460.962	12.198	B-	-2094.500	1.897	154	923500.411	1		
23	89	66	155	Dy	+n	-69164.398	12.0481268584.108	12.050	B-	-3102.000	20.000	154	925748.950	1		
21	88	67	155	Ho	-	-66062.398	23.3481264699.755	23.349	B-	-3842.588	55.236	154	929079.084	2		
19	87	68	155	Er	-a	-62219.810	50.1931260074.814	50.193	B-	-5577.123	51.692	154	933204.273	5		
17	86	69	155	Tm		-56642.687	13.3171253715.337	13.318	B-	-6149#	298#	154	939191.562	1		
15	85	70	155	Yb	-a	-50494#	298#	1246784#	298#	B-	-7862#	327#	154	945792#	32	
13	84	71	155	Lu	+a	-42632#	134#	1238140#	134#	B-	-7943#	611#	154	954233#	14	
11	83	72	155	Hf	x	-34689#	596#	1229414#	596#	B-	*		154	962760#	64	
0	40	98	58	156	Ce	x	-45401#	801#	1259151#	801#	B-	6651#	999#	155	951260#	86
38	97	59	156	Pr	x	-52052#	596#	1265019#	596#	B-	8309#	718#	155	944120#	64	
36	96	60	156	Nd	x	-60361#	401#	1272546#	401#	B-	3856#	402#	155	935200#	43	
34	95	61	156	Pm	+	-64216.854	36.2871275619.654	36.288	B-	5155.000	35.000	155	931060.357	3		
32	94	62	156	Sm		-69371.854	9.5791279992.301	9.582	B-	722.262	7.912	155	925526.236	1		
30	93	63	156	Eu		-70094.116	5.8681279932.210	5.872	B-	2451.043	5.114	155	924750.855			
28	92	64	156	Gd		-72545.159	2.9501281600.899	2.957	B-	-2444.423	3.675	155	922119.552			
26	91	65	156	Tb		-70100.736	4.6581278374.123	4.663	B-	433.588	7.099	155	924743.749			
24	90	66	156	Dy		-70534.324	6.7191278025.357	6.723	B-	-5060#	200#	155	924278.273			
22	89	67	156	Ho	-	-65474#	200#	1272183#	200#	B-	-1215#	213#	155	929710#	21	
20	88	68	156	Er	+	-64259.103	73.7151270185.429	73.715	B-	-7444.400	44.721	155	931015.001	7		
18	87	69	156	Tm	-a	-56814.703	58.6001261958.676	58.600	B-	-3577.136	51.547	155	939006.895	6		
16	86	70	156	Yb	-a	-53237.567	32.9761257599.187	32.977	B-	-9371#	304#	155	942847.109	3		
14	85	71	156	Lu	-a	-43866#	302#	1247446#	302#	B-	-5905.015	201.570	155	952907#	32	
12	84	72	156	Hf	-a	-37961#	356#	1240758#	356#	B-	-11590#	695#	155	959247#	38	
10	83	73	156	Ta	-p	-26371#	596#	1228386#	596#	B-	*		155	971689#	64	
0	41	99	58	157	Ce	x	-40669#	904#	1262490#	904#	B-	8542#	1142#	156	956340#	97
39	98	59	157	Pr	x	-49211#	699#	1270250#	699#	B-	7359#	861#	156	947170#	75	
37	97	60	157	Nd	x	-56570#	503#	1276826#	503#	B-	5654#	585#	156	939270#	54	
35	96	61	157	Pm	x	-62224#	298#	1281698#	298#	B-	4514#	302#	156	933200#	32	
33	95	62	157	Sm	+	-66737.338	50.3911285429.108	50.391	B-	2734.000	50.000	156	928354.506	5		
31	94	63	157	Eu		-69471.338	6.2621287380.754	6.266	B-	1362.542	5.523	156	925419.435			
29	93	64	157	Gd		-70833.880	2.9511287960.943	2.958	B-	-60.053	0.297	156	923956.686			

27	92	65	157	Tb		-70773.828	2.9641287118.537	2.971	B-	-1341.445	6.216	156	924021.155	
25	91	66	157	Dy		-69432.382	6.8001284994.738	6.804	B-	-2540.000	50.000	156	925461.256	
23	90	67	157	Ho	-	-66892.382	50.4601281672.385	50.461	B-	-3500.049	62.470	156	928188.059	5
21	89	68	157	Er	-	-63392.333	80.3041277389.983	80.304	B-	-4481.000	70.711	156	931945.517	8
19	88	69	157	Tm	-	-58911.333	106.9991272126.629	106.999	B-	-5498.218	118.576	156	936756.069	11
17	87	70	157	Yb	-a	-53413.115	51.2371265846.058	51.237	B-	-6933.002	53.463	156	942658.650	5
15	86	71	157	Lu	IT	-46480.113	21.8871258130.702	21.888	B-	-7476#	303#	156	950101.536	2
13	85	72	157	Hf	-a	-39004#	302# 1249873#	302#	B-	-9331#	670#	156	958127#	32
11	84	73	157	Ta	-a	-29673#	598# 1239759#	598#	B-	*		156	968145#	64
0 40	99	59	158	Pr	x	-44917#	801# 1274027#	801#	B-	9231#	999#	157	951780#	86
38	98	60	158	Nd	x	-54148#	596# 1282476#	596#	B-	4825#	718#	157	941870#	64
36	97	61	158	Pm	x	-58973#	401# 1286518#	401#	B-	6243#	408#	157	936690#	43
34	96	62	158	Sm	+	-65215.806	78.3291291978.899	78.329	B-	1999.000	15.000	157	929987.938	8
32	95	63	158	Eu	+	-67214.806	76.8791293195.545	76.879	B-	3485.082	76.822	157	927841.923	8
30	94	64	158	Gd		-70699.888	2.9521295898.274	2.960	B-	-1220.003	0.888	157	924100.533	
28	93	65	158	Tb		-69479.885	2.9991293895.917	3.007	B-	936.732	2.383	157	925410.260	
26	92	66	158	Dy		-70416.616	3.6441294050.295	3.650	B-	-4230.000	30.000	157	924404.637	
24	91	67	158	Ho	-	-66186.616	30.2201289037.942	30.221	B-	-900#	100#	157	928945.730	3
22	90	68	158	Er	-	-65287#	104# 1287356#	104#	B-	-6599.118	51.450	157	929912#	11
20	89	69	158	Tm	-	-58687#	116# 1279974#	116#	B-	-2665#	117#	157	936996#	12
18	88	70	158	Yb	-a	-56022.000	9.9121276526.265	9.914	B-	-8673#	123#	157	939857.897	1
16	87	71	158	Lu	-a	-47349#	123# 1267070#	123#	B-	-5102.070	72.400	157	949169#	13
14	86	72	158	Hf	-a	-42246#	101# 1261186#	101#	B-	-10919#	516#	157	954647#	10
12	85	73	158	Ta	-a	-31328#	505# 1249485#	505#	B-	-7052#	863#	157	966368#	54
10	84	74	158	W	-a	-24276#	699# 1241651#	699#	B-	*		157	973939#	75
0 41	100	59	159	Pr	x	-41703#	904# 1278884#	904#	B-	8234#	1142#	158	955230#	97
39	99	60	159	Nd	x	-49937#	699# 1286337#	699#	B-	6763#	861#	158	946390#	75
37	98	61	159	Pm	x	-56700#	503# 1292317#	503#	B-	5524#	585#	158	939130#	54
35	97	62	159	Sm	x	-62224#	298# 1297058#	298#	B-	3834#	298#	158	933200#	32
33	96	63	159	Eu		-66057.353	8.0301300109.415	8.033	B-	2514.498	7.484	158	929084.500	
31	95	64	159	Gd		-68571.851	2.9551301841.559	2.963	B-	970.561	0.736	158	926385.075	
29	94	65	159	Tb		-69542.412	2.9561302029.767	2.964	B-	-365.635	1.161	158	925343.135	
27	93	66	159	Dy		-69176.777	3.1221300881.779	3.129	B-	-1837.723	2.683	158	925735.660	
25	92	67	159	Ho		-67339.054	4.1161298261.702	4.122	B-	-2768.568	2.000	158	927708.537	
23	91	68	159	Er		-64570.486	4.5761294710.781	4.581	B-	-3845.437	65.192	158	930680.718	
21	90	69	159	Tm		-60725.048	65.3201290082.990	65.321	B-	-4978.620	90.441	158	934808.966	7
19	89	70	159	Yb		-55746.428	90.0801284322.017	90.080	B-	-6018.734	86.333	158	940153.735	9
17	88	71	159	Lu		-49727.694	49.6401277520.929	49.641	B-	-6882#	306#	158	946615.113	5
15	87	72	159	Hf	-a	-42846#	302# 1269857#	302#	B-	-8301#	327#	158	954003#	32
13	86	73	159	Ta	+a	-34545#	124# 1260774#	124#	B-	-8724#	611#	158	962914#	13
11	85	74	159	W	-a	-25821#	598# 1251267#	598#	B-	*		158	972280#	64
0 40	100	60	160	Nd	x	-47143#	801# 1291613#	801#	B-	5962#	999#	159	949390#	86
38	99	61	160	Pm	x	-53104#	596# 1296793#	596#	B-	7312#	718#	159	942990#	64
36	98	62	160	Sm	x	-60417#	401# 1303322#	401#	B-	2955#	448#	159	935140#	43

34	97	63	160	Eu	+	-63372#	200#	1305495#	200#	B-	4580#	200#	159	931967#	21
32	96	64	160	Gd		-67951.903	2.9951309292.935	3.003	3.003	B-	-105.636	0.977	159	927050.616	
30	95	65	160	Tb		-67846.267	2.9691308404.945	2.977	2.977	B-	1835.325	1.296	159	927164.021	
28	94	66	160	Dy		-69681.592	3.0111309457.917	3.019	3.019	B-	-3290.000	15.000	159	925193.718	
26	93	67	160	Ho	-	-66391.592	15.2991305385.564	15.301	15.301	B-	-329.045	53.232	159	928725.679	1
24	92	68	160	Er	+nn	-66062.547	51.1361304274.165	51.136	51.136	B-	-5600.000	300.000	159	929078.924	5
22	91	69	160	Tm	-	-60462.547	304.3271297891.811	304.327	304.327	B-	-2300#	361#	159	935090.772	32
20	90	70	160	Yb	--	-58163#	206# 1294809#	206#	206#	B-	-7880#	100#	159	937560#	22
18	89	71	160	Lu	-	-50283#	229# 1286147#	229#	229#	B-	-4373#	232#	159	946019#	24
16	88	72	160	Hf	-a	-45909.990	33.1111280992.194	33.112	33.112	B-	-9915#	308#	159	950713.588	3
14	87	73	160	Ta	-a	-35995#	306# 1270295#	306#	306#	B-	-6530.628	207.932	159	961358#	32
12	86	74	160	W	-a	-29464#	356# 1262982#	356#	356#	B-	-12217#	695#	159	968369#	38
10	85	75	160	Re	-a	-17247#	596# 1249982#	596#	596#	B-	*		159	981485#	64
0 41	101	60	161	Nd	x	-42541#	904# 1295083#	904#	904#	B-	7890#	1142#	160	954330#	97
39	100	61	161	Pm	x	-50431#	699# 1302190#	699#	699#	B-	6548#	861#	160	945860#	75
37	99	62	161	Sm	x	-56979#	503# 1307957#	503#	503#	B-	4797#	585#	160	938830#	54
35	98	63	161	Eu	x	-61777#	298# 1311971#	298#	298#	B-	3739#	298#	160	933680#	32
33	97	64	161	Gd	-n	-65515.980	3.1581314928.334	3.165	3.165	B-	1955.577	1.418	160	929665.688	
31	96	65	161	Tb		-67471.557	3.0091316101.558	3.017	3.017	B-	593.077	1.364	160	927566.289	
29	95	66	161	Dy		-68064.634	3.0101315912.281	3.018	3.018	B-	-858.900	2.728	160	926929.595	
27	94	67	161	Ho		-67205.734	3.5751314271.028	3.582	3.582	B-	-2002.419	9.389	160	927851.662	
25	93	68	161	Er	+n	-65203.315	9.5021311486.255	9.505	9.505	B-	-3164.000	89.443	160	930001.348	1
23	92	69	161	Tm	-	-62039.315	89.9461307539.902	89.946	89.946	B-	-4150#	200#	160	933398.042	9
21	91	70	161	Yb	-	-57889#	219# 1302608#	219#	219#	B-	-5300.000	100.000	160	937853#	23
19	90	71	161	Lu	-	-52589#	241# 1296525#	241#	241#	B-	-6323#	251#	160	943543#	25
17	89	72	161	Hf	-a	-46266.506	71.5901289420.033	71.591	71.591	B-	-7491.204	88.647	160	950330.852	7
15	88	73	161	Ta	-a	-38775.302	54.5811281146.476	54.581	54.581	B-	-8119#	311#	160	958372.992	5
13	87	74	161	W	-a	-30656#	306# 1272245#	306#	306#	B-	-9847#	674#	160	967089#	32
11	86	75	161	Re	-a	-20809#	600# 1261615#	600#	600#	B-	*		160	977661#	64
0 40	101	61	162	Pm	x	-46305#	801# 1306135#	801#	801#	B-	8449#	999#	161	950290#	86
38	100	62	162	Sm	x	-54753#	596# 1313802#	596#	596#	B-	3894#	718#	161	941220#	64
36	99	63	162	Eu	x	-58647#	401# 1316913#	401#	401#	B-	5644#	401#	161	937040#	43
34	98	64	162	Gd	-nn	-64290.578	4.8391321774.255	4.844	4.844	B-	1393.895	36.584	161	930981.211	
32	97	65	162	Tb	+	-65684.473	36.4881322385.797	36.489	36.489	B-	2505.785	36.364	161	929484.803	3
30	96	66	162	Dy		-68190.258	3.0111324109.229	3.019	3.019	B-	-2140.283	3.529	161	926794.731	
28	95	67	162	Ho		-66049.975	4.2161321186.592	4.222	4.222	B-	295.747	4.091	161	929092.420	
26	94	68	162	Er		-66345.722	3.7251320699.985	3.732	3.732	B-	-4839.320	30.095	161	928074.923	
24	93	69	162	Tm	-	-61506.402	30.3251315078.312	30.326	30.326	B-	-1658#	207#	161	933970.147	3
22	92	70	162	Yb	x	-59848#	205# 1312638#	205#	205#	B-	-6960.028	79.515	161	935750#	22
20	91	71	162	Lu	-	-52888#	220# 1304896#	220#	220#	B-	-3708#	220#	161	943222#	23
18	90	72	162	Hf	-a	-49180.103	11.4351300404.952	11.437	11.437	B-	-9264#	133#	161	947202.977	1
16	89	73	162	Ta	-a	-39917#	132# 1290359#	132#	132#	B-	-5769.440	88.036	161	957148#	14
14	88	74	162	W	-a	-34147#	101# 1283807#	101#	101#	B-	-11519#	518#	161	963342#	10
12	87	75	162	Re	-a	-22629#	508# 1271506#	508#	508#	B-	-7556#	865#	161	975707#	54

10	86	76	162	Os	-a	-15072#	700#	1263168#	700#	B-	*		161	983819#	75	
0	41	102	61	163	Pm	x	-43296#	904#	1311198#	904#	B-	7601#	1142#	162	953520#	97
39	101	62	163	Sm	x	-50897#	699#	1318017#	699#	B-	5729#	861#	162	945360#	75	
37	100	63	163	Eu	x	-56626#	503#	1322963#	503#	B-	4862#	585#	162	939210#	54	
35	99	64	163	Gd	x	-61488#	298#	1327043#	298#	B-	3117#	298#	162	933990#	32	
33	98	65	163	Tb	+p	-64604.742	5.0071329377.389		5.012	B-	1785.124	4.002	162	930643.942		
31	97	66	163	Dy		-66389.866	3.0111330380.159		3.019	B-	-2.565	0.014	162	928727.532		
29	96	67	163	Ho		-66387.301	3.0111329595.241		3.019	B-	-1209.999	4.674	162	928730.286		
27	95	68	163	Er		-65177.303	5.4361327602.889		5.440	B-	-2439.000	3.000	162	930029.273		
25	94	69	163	Tm	-	-62738.303	6.2091324381.535		6.212	B-	-3370.000	100.000	162	932647.648		
23	93	70	163	Yb	-	-59368.303	100.1931320229.182		100.193	B-	-4600.000	200.000	162	936265.492	10	
21	92	71	163	Lu	-	-54768.303	223.6931314846.829		223.693	B-	-5452#	387#	162	941203.796	24	
19	91	72	163	Hf	+a	-49316#	316#	1308612#	316#	B-	-6762#	323#	162	947057#	33	
17	90	73	163	Ta	-a	-42553.760	70.4571301067.579		70.457	B-	-7653#	314#	162	954316.650	7	
15	89	74	163	W	-a	-34901#	306#	1292633#	306#	B-	-8789#	327#	162	962532#	32	
13	88	75	163	Re	+a	-26112#	114#	1283062#	114#	B-	-9390#	611#	162	971967#	12	
11	87	76	163	Os	-a	-16722#	600#	1272889#	600#	B-	*		162	982048#	64	
0	40	102	62	164	Sm	x	-48177#	801#	1323368#	801#	B-	4928#	999#	163	948280#	86
38	101	63	164	Eu	x	-53104#	596#	1327513#	596#	B-	6642#	718#	163	942990#	64	
36	100	64	164	Gd	x	-59746#	401#	1333372#	401#	B-	2341#	413#	163	935860#	43	
34	99	65	164	Tb	+	-62086.625	100.0451334930.594		100.046	B-	3890.000	100.000	163	933347.253	10	
32	98	66	164	Dy		-65976.625	3.0111338038.241		3.019	B-	-986.836	2.182	163	929171.165		
30	97	67	164	Ho		-64989.789	3.1741336269.052		3.182	B-	962.774	2.322	163	930230.577		
28	96	68	164	Er		-65952.563	3.3711336449.472		3.378	B-	-3962.552	18.570	163	929196.996		
26	95	69	164	Tm	-	-61990.011	18.8731331704.567		18.874	B-	-996#	104#	163	933450.972	2	
24	94	70	164	Yb	x	-60994#	102#	1329926#	102#	B-	-6236.680	72.000	163	934520#	11	
22	93	71	164	Lu	-	-54758#	125#	1322907#	125#	B-	-2987#	233#	163	941215#	13	
20	92	72	164	Hf	+a	-51770#	196#	1319138#	196#	B-	-8521#	446#	163	944422#	21	
18	91	73	164	Ta	x	-43249#	401#	1309834#	401#	B-	-5043#	402#	163	953570#	43	
16	90	74	164	W	-a	-38206.329	33.1801304009.117		33.181	B-	-10559#	312#	163	958983.810	3	
14	89	75	164	Re	-a	-27647#	310#	1292668#	310#	B-	-7086.153	214.839	163	970319#	33	
12	88	76	164	Os	-a	-20561#	357#	1284799#	357#	B-	*		163	977927#	38	
0	41	103	62	165	Sm	x	-43799#	904#	1327061#	904#	B-	6763#	1142#	164	952980#	97
39	102	63	165	Eu	x	-50561#	699#	1333041#	699#	B-	5906#	861#	164	945720#	75	
37	101	64	165	Gd	x	-56467#	503#	1338165#	503#	B-	4192#	540#	164	939380#	54	
35	100	65	165	Tb	x	-60659#	196#	1341574#	196#	B-	2962#	196#	164	934880#	21	
33	99	66	165	Dy	-n	-63621.191	3.0131343754.130		3.021	B-	1286.075	1.856	164	931699.828		
31	98	67	165	Ho		-64907.266	2.9591344257.852		2.968	B-	-375.980	2.043	164	930319.169		
29	97	68	165	Er		-64531.286	3.3841343099.518		3.391	B-	-1592.540	1.539	164	930722.800		
27	96	69	165	Tm		-62938.746	3.6191340724.625		3.626	B-	-2762.000	20.000	164	932432.463		
25	95	70	165	Yb	-	-60176.746	20.3251337180.271		20.326	B-	-3920.000	80.000	164	935397.592	2	
23	94	71	165	Lu	-	-56256.746	82.5411332477.918		82.542	B-	-4596#	383#	164	939605.886	8	
21	93	72	165	Hf	+a	-51661#	374#	1327100#	374#	B-	-5848#	435#	164	944540#	40	
19	92	73	165	Ta	+a	-45813#	222#	1320470#	222#	B-	-7004#	239#	164	950817#	23	

17	91	74	165	W	-a	-38809.795	87.3221312683.907	87.323	B-	-8117.322	113.395	164	958335.962	9
15	90	75	165	Re	-a	-30692.473	74.0211303784.231	74.021	B-	-8779#	319#	164	967050.268	7
13	89	76	165	Os	-a	-21914#	310# 1294223#	310#	B-	-10345#	507#	164	976475#	33
11	88	77	165	Ir	x	-11569#	401# 1283096#	401#	B-	*		164	987580#	43
0 40	103	63	166	Eu	x	-46603#	801# 1337154#	801#	B-	7797#	999#	165	949970#	86
38	102	64	166	Gd	x	-54399#	596# 1344168#	596#	B-	3307#	667#	165	941600#	64
36	101	65	166	Tb	x	-57706#	298# 1346693#	298#	B-	4887#	298#	165	938050#	32
34	100	66	166	Dy	-n	-62593.368	3.0401350797.630	3.048	B-	486.215	1.898	165	932803.241	
32	99	67	166	Ho		-63079.584	2.9591350501.492	2.968	B-	1854.881	0.900	165	932281.267	
30	98	68	166	Er		-64934.464	2.9211351574.019	2.930	B-	-3039.615	11.094	165	930289.970	
28	97	69	166	Tm	-	-61894.849	11.4721347752.050	11.474	B-	-304.124	13.625	165	933553.133	1
26	96	70	166	Yb	+nn	-61590.725	8.2901346665.573	8.293	B-	-5480.000	160.000	165	933879.623	
24	95	71	166	Lu	-	-56110.725	160.2151340403.219	160.215	B-	-2317#	338#	165	939762.646	17
22	94	72	166	Hf	x	-53794#	298# 1337304#	298#	B-	-7657#	422#	165	942250#	32
20	93	73	166	Ta	x	-46137#	298# 1328865#	298#	B-	-4238#	298#	165	950470#	32
18	92	74	166	W	-a	-41898.691	12.1141323844.125	12.116	B-	-10044#	142#	165	955019.896	1
16	91	75	166	Re	-a	-31855#	142# 1313018#	142#	B-	-6262.936	101.415	165	965803#	15
14	90	76	166	Os	-a	-25592#	102# 1305972#	102#	B-	-12091#	520#	165	972526#	10
12	89	77	166	Ir	-a	-13501#	510# 1293099#	510#	B-	*		165	985506#	54
0 41	104	63	167	Eu	x	-43734#	904# 1342356#	904#	B-	6968#	1082#	166	953050#	97
39	103	64	167	Gd	x	-50701#	596# 1348542#	596#	B-	5142#	718#	166	945570#	64
37	102	65	167	Tb	x	-55843#	401# 1352901#	401#	B-	4099#	405#	166	940050#	43
35	101	66	167	Dy	+	-59942.538	60.2751356218.123	60.276	B-	2350.000	60.000	166	935649.025	6
33	100	67	167	Ho	p2n	-62292.538	5.7521357785.769	5.756	B-	1006.709	5.101	166	933126.195	
31	99	68	167	Er		-63299.248	2.9121358010.125	2.921	B-	-748.358	1.522	166	932045.448	
29	98	69	167	Tm		-62550.890	3.0871356479.414	3.096	B-	-1954.292	3.813	166	932848.844	
27	97	70	167	Yb		-60596.598	4.8691353742.769	4.875	B-	-3130.000	100.000	166	934946.862	
25	96	71	167	Lu	-	-57466.598	100.1181349830.416	100.119	B-	-3999#	228#	166	938307.056	10
23	95	72	167	Hf	x	-53468#	205# 1345049#	205#	B-	-5005#	479#	166	942600#	22
21	94	73	167	Ta	+	-48463#	432# 1339262#	432#	B-	-6240#	300#	166	947973#	46
19	93	74	167	W	+a	-42223#	312# 1332240#	312#	B-	-7351#	338#	166	954672#	33
17	92	75	167	Re	IT	-34872#	132# 1324106#	132#	B-	-8375#	337#	166	962564#	14
15	91	76	167	Os	-a	-26497#	310# 1314949#	310#	B-	-9304#	327#	166	971554#	33
13	90	77	167	Ir	-p	-17193#	102# 1304862#	102#	B-	*		166	981543#	11
0 40	104	64	168	Gd	x	-48102#	699# 1354014#	699#	B-	4397#	861#	167	948360#	75
38	103	65	168	Tb	x	-52499#	503# 1357628#	503#	B-	5971#	585#	167	943640#	54
36	102	66	168	Dy	x	-58470#	298# 1362817#	298#	B-	1615#	299#	167	937230#	32
34	101	67	168	Ho	+	-60084.685	28.8821363649.239	28.883	B-	2914.312	28.735	167	935496.424	3
32	100	68	168	Er		-62998.997	2.9131365781.197	2.922	B-	-1679.106	1.875	167	932367.781	
30	99	69	168	Tm		-61319.891	3.2711363319.738	3.280	B-	257.009	3.884	167	934170.375	
28	98	70	168	Yb		-61576.900	4.4421362794.394	4.448	B-	-4475.000	80.000	167	933894.465	
26	97	71	168	Lu	-	-57101.900	80.1231357537.040	80.124	B-	-1799#	130#	167	938698.576	8
24	96	72	168	Hf	x	-55303#	102# 1354956#	102#	B-	-6666#	381#	167	940630#	11
22	95	73	168	Ta	+a	-48636#	366# 1347507#	366#	B-	-3797#	416#	167	947787#	39

20	94	74	168	W	+a	-44839#	196#	1342927#	196#	B-	-9078#	446#	167	951863#	21	
18	93	75	168	Re	-a	-35761#	401#	1333067#	401#	B-	-5798#	402#	167	961609#	43	
16	92	76	168	Os	-a	-29963.446	33.304	1326486.819	33.305	B-	-11302#	332#	167	967832.911	3	
14	91	77	168	Ir	-a	-18662#	330#	1314403#	330#	B-	-7516#	243#	167	979966#	35	
12	90	78	168	Pt	-a	-11146#	358#	1306104#	358#	B-	*		167	988035#	38	
0	41	105	64	169	Gd	x	-43901#	801#	1357884#	801#	B-	6194#	999#	168	952870#	86
39	104	65	169	Tb	x	-50096#	596#	1363296#	596#	B-	5511#	668#	168	946220#	64	
37	103	66	169	Dy	+	-55606.785	300.682	1368025.015	300.682	B-	3200.000	300.000	168	940303.648	32	
35	102	67	169	Ho	+p	-58806.785	20.237	1370442.662	20.239	B-	2124.015	20.063	168	936868.306	2	
33	101	68	169	Er		-60930.800	2.924	1371784.323	2.933	B-	351.141	1.096	168	934588.082		
31	100	69	169	Tm		-61281.940	2.900	1371353.110	2.909	B-	-909.141	3.574	168	934211.117		
29	99	70	169	Yb		-60372.800	4.440	1369661.616	4.446	B-	-2293.000	3.000	168	935187.120		
27	98	71	169	Lu	-	-58079.800	5.359	1366586.263	5.364	B-	-3269.366	82.073	168	937648.757		
25	97	72	169	Hf	-	-54810.434	82.248	1362534.543	82.248	B-	-4435#	221#	168	941158.567	8	
23	96	73	169	Ta	x	-50375#	205#	1357317#	205#	B-	-5439#	376#	168	945920#	22	
21	95	74	169	W	+a	-44936#	315#	1351096#	315#	B-	-6587#	376#	168	951759#	33	
19	94	75	169	Re	x	-38350#	205#	1343727#	205#	B-	-7681#	223#	168	958830#	22	
17	93	76	169	Os	-a	-30668.313	87.398	1335263.009	87.399	B-	-8676.551	123.982	168	967076.205	9	
15	92	77	169	Ir	-a	-21991.762	89.326	1325804.104	89.326	B-	-9343#	327#	168	976390.868	9	
13	91	78	169	Pt	-a	-12649#	314#	1315679#	314#	B-	*		168	986421#	33	
0	40	105	65	170	Tb	x	-46342#	699#	1367614#	699#	B-	7061#	805#	169	950250#	75
38	104	66	170	Dy	x	-53403#	401#	1373892#	401#	B-	2846#	404#	169	942670#	43	
36	103	67	170	Ho	+	-56248.302	50.095	1375955.502	50.096	B-	3870.000	50.000	169	939614.951	5	
34	102	68	170	Er		-60118.302	3.091	1379043.148	3.100	B-	-314.419	1.829	169	935460.334		
32	101	69	170	Tm		-59803.883	2.927	1377946.376	2.937	B-	968.032	0.826	169	935797.877		
30	100	70	170	Yb		-60771.916	2.878	1378132.055	2.888	B-	-3459.138	18.570	169	934758.652		
28	99	71	170	Lu	-	-57312.778	18.791	1373890.563	18.793	B-	-1097#	197#	169	938472.190	2	
26	98	72	170	Hf	x	-56216#	196#	1372011#	196#	B-	-5999#	277#	169	939650#	21	
24	97	73	170	Ta	x	-50217#	196#	1365230#	196#	B-	-2981#	509#	169	946090#	21	
22	96	74	170	W	+a	-47236#	470#	1361467#	470#	B-	-8265#	620#	169	949290#	50	
20	95	75	170	Re	+a	-38971#	404#	1352419#	404#	B-	-5036#	404#	169	958163#	43	
18	94	76	170	Os	-a	-33934.586	12.596	1346600.604	12.598	B-	-10678#	150#	169	963569.716	1	
16	93	77	170	Ir	-a	-23257#	150#	1335140#	150#	B-	-6793.591	113.252	169	975033#	16	
14	92	78	170	Pt	-a	-16463#	102#	1327564#	102#	B-	*		169	982326#	10	
0	41	106	65	171	Tb	x	-43501#	801#	1372844#	801#	B-	6353#	946#	170	953300#	86
39	105	66	171	Dy	x	-49854#	503#	1378414#	503#	B-	4675#	783#	170	946480#	54	
37	104	67	171	Ho	+	-54528.508	600.008	1382307.030	600.008	B-	3200.000	600.000	170	941461.227	64	
35	103	68	171	Er		-57728.508	3.107	1384724.677	3.116	B-	1490.453	1.250	170	938025.885		
33	102	69	171	Tm		-59218.961	2.944	1385432.776	2.953	B-	96.428	0.960	170	936425.817		
31	101	70	171	Yb		-59315.389	2.795	1384746.851	2.805	B-	-1478.845	1.943	170	936322.297		
29	100	71	171	Lu		-57836.544	3.124	1382485.653	3.133	B-	-2403#	196#	170	937909.903		
27	99	72	171	Hf	x	-55433#	196#	1379300#	196#	B-	-3698#	283#	170	940490#	21	
25	98	73	171	Ta	x	-51735#	205#	1374820#	205#	B-	-4657#	347#	170	944460#	22	
23	97	74	171	W	x	-47078#	279#	1369380#	279#	B-	-5670.000	200.000	170	949460#	30	

21	96	75	171	Re	-	-41408#	344#	1362927#	344#	B-	-6979#	464#	170	955547#	36	
19	95	76	171	Os	+a	-34428#	311#	1355166#	311#	B-	-8141#	338#	170	963040#	33	
17	94	77	171	Ir	-a	-26288#	132#	1346243#	132#	B-	-8823#	341#	170	971779#	14	
15	93	78	171	Pt	-a	-17465#	314#	1336637#	314#	B-	-9802#	400#	170	981251#	33	
13	92	79	171	Au	IT	-7662#	247#	1326053#	247#	B-	*		170	991774#	26	
0	40	106	66	172	Dy	x	-47404#	596#	1384036#	596#	B-	3996#	718#	171	949110#	64
38	105	67	172	Ho	x	-51400#	401#	1387250#	401#	B-	5093#	401#	171	944820#	43	
36	104	68	172	Er		-56493.101		4.8271391560.593	4.833	B-	890.537	4.543	171	939352.149		
34	103	69	172	Tm		-57383.638		6.1351391668.776	6.139	B-	1880.148	5.500	171	938396.118		
32	102	70	172	Yb		-59263.786		2.7881392766.570	2.798	B-	-2519.266	2.397	171	936377.696		
30	101	71	172	Lu		-56744.520		3.2991389464.951	3.308	B-	-350.000	50.000	171	939082.239		
28	100	72	172	Hf	-	-56394.520		50.1091388332.598	50.109	B-	-4920.000	180.000	171	939457.980	5	
26	99	73	172	Ta	-	-51474.520		186.8451382630.245	186.845	B-	-2500#	200#	171	944739.818	20	
24	98	74	172	W	-	-48975#	274#	1379348#	274#	B-	-7323#	411#	171	947424#	29	
22	97	75	172	Re	+a	-41651#	307#	1371242#	307#	B-	-4464#	364#	171	955285#	33	
20	96	76	172	Os	+a	-37187#	196#	1365996#	196#	B-	-9841#	446#	171	960078#	21	
18	95	77	172	Ir	-a	-27346#	401#	1355372#	401#	B-	-6272#	402#	171	970643#	43	
16	94	78	172	Pt	-a	-21073.989		33.5551348317.946	33.556	B-	-11861#	335#	171	977376.138	3	
14	93	79	172	Au	-a	-9213#	334#	1335675#	334#	B-	*		171	990109#	35	
0	41	107	66	173	Dy	x	-43370#	699#	1388074#	699#	B-	5729#	805#	172	953440#	75
39	106	67	173	Ho	x	-49099#	401#	1393020#	401#	B-	4555#	446#	172	947290#	43	
37	105	68	173	Er	x	-53654#	196#	1396793#	196#	B-	2608#	196#	172	942400#	21	
35	104	69	173	Tm	p2n	-56261.916		5.2751398618.377	5.280	B-	1298.111	4.538	172	939600.336		
33	103	70	173	Yb		-57560.027		2.7671399134.135	2.777	B-	-670.811	1.713	172	938206.756		
31	102	71	173	Lu		-56889.216		2.7991397680.971	2.809	B-	-1605#	103#	172	938926.901		
29	101	72	173	Hf	x	-55284#	102#	1395294#	102#	B-	-2690#	200#	172	940650#	11	
27	100	73	173	Ta	-	-52594#	225#	1391821#	225#	B-	-4000.000	300.000	172	943538#	24	
25	99	74	173	W	-	-48594#	375#	1387039#	375#	B-	-4872#	586#	172	947832#	40	
23	98	75	173	Re	+a	-43722#	450#	1381384#	450#	B-	-6268#	548#	172	953062#	48	
21	97	76	173	Os	+a	-37454#	311#	1374334#	311#	B-	-7374#	386#	172	959791#	33	
19	96	77	173	Ir	-a	-30080#	228#	1366178#	228#	B-	-8190#	249#	172	967707#	24	
17	95	78	173	Pt	-a	-21890.439		100.6901357205.719	100.690	B-	-9220.388	142.729	172	976499.642	10	
15	94	79	173	Au	-a	-12670.051		102.3671347202.978	102.368	B-	*		172	986398.138	10	
0	40	107	67	174	Ho	x	-45503#	503#	1397496#	503#	B-	6343#	585#	173	951150#	54
38	106	68	174	Er	x	-51847#	298#	1403057#	298#	B-	2026#	301#	173	944340#	32	
36	105	69	174	Tm	+	-53873.303		44.8071404301.087	44.807	B-	3080.000	44.721	173	942164.618	4	
34	104	70	174	Yb		-56953.303		2.7671406598.734	2.777	B-	-1374.345	1.636	173	938858.101		
32	103	71	174	Lu		-55578.958		2.7711404442.035	2.781	B-	273.266	2.191	173	940333.522		
30	102	72	174	Hf		-55852.224		3.1781403932.947	3.187	B-	-3845.000	80.000	173	940040.159		
28	101	73	174	Ta	-	-52007.224		80.0631399305.594	80.063	B-	-1856#	309#	173	944167.937	8	
26	100	74	174	W	x	-50152#	298#	1396668#	298#	B-	-6476#	510#	173	946160#	32	
24	99	75	174	Re	+a	-43676#	413#	1389409#	413#	B-	-3736#	361#	173	953112#	44	
22	98	76	174	Os	+a	-39939#	470#	1384890#	470#	B-	-9017#	620#	173	957124#	50	
20	97	77	174	Ir	+a	-30922#	404#	1375091#	404#	B-	-5596#	404#	173	966804#	43	

	18	96	78	174	Pt	-a	-25326.129	13.4021368712.732	13.404	B-	-11277#	151#	173	972811.276	1
	16	95	79	174	Au	-a	-14050#	150# 1356654#	150#	B-	*		173	984917#	16
0	41	108	67	175	Ho	x	-42802#	596# 1402866#	596#	B-	5701#	718#	174	954050#	64
	39	107	68	175	Er	x	-48503#	401# 1407784#	401#	B-	3816#	404#	174	947930#	43
	37	106	69	175	Tm	+	-52319.311	50.0761410818.418	50.077	B-	2385.000	50.000	174	943832.897	5
	35	105	70	175	Yb		-54704.311	2.7671412421.065	2.777	B-	470.023	1.287	174	941272.494	
	33	104	71	175	Lu		-55174.334	2.5821412108.734	2.594	B-	-684.729	1.992	174	940767.904	
	31	103	72	175	Hf		-54489.605	3.2051410641.651	3.213	B-	-2000#	103#	174	941502.991	
	29	102	73	175	Ta	x	-52490#	102# 1407859#	102#	B-	-2906#	221#	174	943650#	11
	27	101	74	175	W	x	-49583#	196# 1404171#	196#	B-	-4307#	489#	174	946770#	21
	25	100	75	175	Re	+a	-45277#	448# 1399082#	448#	B-	-5297#	538#	174	951393#	48
	23	99	76	175	Os	+a	-39980#	298# 1393003#	298#	B-	-6706#	455#	174	957080#	32
	21	98	77	175	Ir	-a	-33274#	344# 1385514#	344#	B-	-7449#	464#	174	964279#	36
	19	97	78	175	Pt	+a	-25825#	311# 1377283#	311#	B-	-8641#	393#	174	972276#	33
	17	96	79	175	Au	IT	-17185#	240# 1367860#	240#	B-	-9184#	399#	174	981552#	25
	15	95	80	175	Hg	-a	-8000#	318# 1357894#	318#	B-	*		174	991411#	34
0	40	108	68	176	Er	x	-46305#	401# 1413657#	401#	B-	3073#	413#	175	950290#	43
	38	107	69	176	Tm	+	-49377.174	100.0421415947.604	100.043	B-	4120.000	100.000	175	946991.412	10
	36	106	70	176	Yb		-53497.174	2.9091419285.250	2.919	B-	-106.181	1.698	175	942568.409	
	34	105	71	176	Lu		-53390.993	2.5801418396.716	2.592	B-	1192.844	0.938	175	942682.399	
	32	104	72	176	Hf		-54583.838	2.7101418807.207	2.720	B-	-3110.000	100.000	175	941401.828	
	30	103	73	176	Ta	-	-51473.838	100.0371414914.853	100.037	B-	-791#	220#	175	944740.551	10
	28	102	74	176	W	x	-50683#	196# 1413341#	196#	B-	-5570#	277#	175	945590#	21
	26	101	75	176	Re	x	-45112#	196# 1406989#	196#	B-	-3148#	280#	175	951570#	21
	24	100	76	176	Os	+a	-41964#	201# 1403058#	201#	B-	-7975#	363#	175	954950#	21
	22	99	77	176	Ir	+a	-33989#	303# 1394301#	303#	B-	-5113#	361#	175	963511#	32
	20	98	78	176	Pt	x	-28876#	196# 1388406#	196#	B-	-10497#	446#	175	969000#	21
	18	97	79	176	Au	-a	-18379#	401# 1377126#	401#	B-	-6655#	403#	175	980269#	43
	16	96	80	176	Hg	-a	-11724.482	35.0811369689.024	35.082	B-	*		175	987413.248	3
0	41	109	68	177	Er	x	-42504#	596# 1417928#	596#	B-	4965#	667#	176	954370#	64
	39	108	69	177	Tm	x	-47469#	298# 1422111#	298#	B-	3524#	298#	176	949040#	32
	37	107	70	177	Yb	-n	-50992.651	3.1471424852.050	3.156	B-	1399.233	1.998	176	945257.126	
	35	106	71	177	Lu		-52391.884	2.5701425468.929	2.581	B-	498.325	0.841	176	943754.987	
	33	105	72	177	Hf		-52890.209	2.5221425184.901	2.534	B-	-1166.000	3.000	176	943220.013	
	31	104	73	177	Ta	-	-51724.209	3.9191423236.548	3.927	B-	-2001#	298#	176	944471.766	
	29	103	74	177	W	x	-49723#	298# 1420453#	298#	B-	-3400#	357#	176	946620#	32
	27	102	75	177	Re	x	-46323#	196# 1416271#	196#	B-	-4448#	343#	176	950270#	21
	25	101	76	177	Os	+a	-41875#	281# 1411041#	281#	B-	-5705#	529#	176	955045#	30
	23	100	77	177	Ir	+a	-36170#	448# 1404553#	448#	B-	-6784#	545#	176	961170#	48
	21	99	78	177	Pt	+a	-29386#	311# 1396986#	311#	B-	-8162#	386#	176	968453#	33
	19	98	79	177	Au	-a	-21224#	228# 1388042#	228#	B-	-8497#	255#	176	977215#	24
	17	97	80	177	Hg	-a	-12727.118	112.4211378762.983	112.421	B-	-9822#	251#	176	986336.874	12
	15	96	81	177	Tl	-a	-2905#	225# 1368159#	225#	B-	*		176	996881#	24
0	40	109	69	178	Tm	x	-44116#	401# 1426829#	401#	B-	5586#	401#	177	952640#	43

38	108	70	178	Yb	-nn	-49701.349	10.4141431632.071	10.417	B-	644.621	10.302	177	946643.396	1
36	107	71	178	Lu		-50345.971	3.1861431494.339	3.195	B-	2099.246	2.088	177	945951.366	
34	106	72	178	Hf		-52445.216	2.5151432811.231	2.527	B-	-1912.000	100.499	177	943697.732	
32	105	73	178	Ta	IT	-50533.216	100.5301430116.878	100.531	B-	-91.300	2.000	177	945750.349	10
30	104	74	178	W	-	-50441.916	100.5501429243.224	100.550	B-	-4660.000	180.000	177	945848.364	10
28	103	75	178	Re	-	-45781.916	206.1801423800.871	206.180	B-	-2326.075	288.662	177	950851.081	22
26	102	76	178	Os	+a	-43455.842	202.0441420692.443	202.044	B-	-7205#	300#	177	953348.225	21
24	101	77	178	Ir	+a	-36251#	362# 1412705#	362#	B-	-4310#	300#	177	961083#	38
22	100	78	178	Pt	+a	-31941#	470# 1407613#	470#	B-	-9562#	618#	177	965710#	50
20	99	79	178	Au	+a	-22379#	401# 1397269#	401#	B-	-6056#	401#	177	975975#	43
18	98	80	178	Hg	-a	-16323.195	14.7401390430.383	14.742	B-	-11879#	213#	177	982476.325	1
16	97	81	178	Tl	-a	-4445#	212# 1377770#	212#	B-	*		177	995228#	22
0 41	110	69	179	Tm	x	-41601#	503# 1432385#	503#	B-	4816#	585#	178	955340#	54
39	109	70	179	Yb	x	-46416#	298# 1436418#	298#	B-	2651#	298#	178	950170#	32
37	108	71	179	Lu		-49067.170	5.6251438286.861	5.630	B-	1405.757	5.083	178	947324.216	
35	107	72	179	Hf		-50472.927	2.5141438910.264	2.526	B-	-110.885	5.452	178	945815.073	
33	106	73	179	Ta	+nn	-50362.041	5.5801438017.026	5.586	B-	-1059.685	16.265	178	945934.113	
31	105	74	179	W	+n	-49302.356	15.7281436174.987	15.730	B-	-2710.000	50.000	178	947071.733	1
29	104	75	179	Re	-	-46592.356	52.4151432682.633	52.416	B-	-3698#	240#	178	949981.038	5
27	103	76	179	Os	+a	-42894#	234# 1428202#	234#	B-	-4842#	464#	178	953951#	25
25	102	77	179	Ir	+a	-38052#	401# 1422578#	401#	B-	-5892#	499#	178	959150#	43
23	101	78	179	Pt	+a	-32160#	298# 1415903#	298#	B-	-7393#	455#	178	965475#	32
21	100	79	179	Au	-a	-24767#	344# 1407728#	344#	B-	-7798#	464#	178	973412#	37
19	99	80	179	Hg	+a	-16969#	311# 1399148#	311#	B-	-9020#	342#	178	981783#	33
17	98	81	179	Tl	-a	-7949#	141# 1389346#	141#	B-	*		178	991466#	15
0 40	110	70	180	Yb	x	-44404#	401# 1442478#	401#	B-	2282#	407#	179	952330#	43
38	109	71	180	Lu	+	-46686.502	70.7561443977.516	70.756	B-	3103.000	70.711	179	949879.968	7
36	108	72	180	Hf		-49789.502	2.5211446298.162	2.533	B-	-854.082	2.930	179	946548.760	
34	107	73	180	Ta		-48935.420	3.1581444661.727	3.168	B-	707.862	4.233	179	947465.655	
32	106	74	180	W		-49643.282	4.7281444587.236	4.735	B-	-3802.308	33.282	179	946705.734	
30	105	75	180	Re	-	-45840.974	33.6161440002.575	33.617	B-	-1456#	185#	179	950787.680	3
28	104	76	180	Os	+a	-44385#	182# 1437764#	182#	B-	-6429#	61#	179	952351#	19
26	103	77	180	Ir	+a	-37955#	191# 1430552#	191#	B-	-3691#	60#	179	959253#	20
24	102	78	180	Pt	+a	-34265#	200# 1426079#	200#	B-	-8551#	363#	179	963215#	21
22	101	79	180	Au	+a	-25713#	302# 1416746#	302#	B-	-5520#	360#	179	972396#	32
20	100	80	180	Hg	-a	-20193#	196# 1410443#	196#	B-	-11059#	489#	179	978322#	21
18	99	81	180	Tl	-a	-9135#	448# 1398602#	448#	B-	*		179	990194#	48
0 41	111	70	181	Yb	x	-40846#	401# 1446991#	401#	B-	3894#	499#	180	956150#	43
39	110	71	181	Lu	x	-44740#	298# 1450102#	298#	B-	2674#	298#	180	951970#	32
37	109	72	181	Hf		-47413.853	2.5901451993.837	2.601	B-	1027.231	2.659	180	949099.124	
35	108	73	181	Ta		-48441.085	2.8921452238.715	2.903	B-	-187.890	4.549	180	947996.346	
33	107	74	181	W		-48253.195	5.3041451268.471	5.310	B-	-1738.673	14.801	180	948198.054	
31	106	75	181	Re	4n	-46514.522	14.2761448747.445	14.278	B-	-2990.000	200.000	180	950064.596	1
29	105	76	181	Os	-	-43524.522	200.5091444975.092	200.509	B-	-4068.450	64.181	180	953274.494	21

	27	104	77	181	Ir	+a	-39456.072	210.5301440124.288	210.530	B-	-5156#	348#	180	957642.156	22
	25	103	78	181	Pt	+a	-34300#	277# 1434186#	277#	B-	-6307#	526#	180	963177#	29
	23	102	79	181	Au	+a	-27993#	448# 1427097#	448#	B-	-7319#	545#	180	969948#	48
	21	101	80	181	Hg	+a	-20674#	311# 1418995#	311#	B-	-8475#	489#	180	977806#	33
	19	100	81	181	Tl	-a	-12199#	377# 1409738#	377#	B-	-9138#	411#	180	986904#	40
	17	99	82	181	Pb	IT	-3061#	162# 1399818#	162#	B-	*		180	996714#	17
0	40	111	71	182	Lu	x	-41722#	298# 1455155#	298#	B-	4338#	298#	181	955210#	32
	38	110	72	182	Hf	-nn	-46059.677	6.5081458710.983	6.513	B-	373.043	6.556	181	950552.893	
	36	109	73	182	Ta		-46432.720	2.8941458301.673	2.905	B-	1813.520	1.755	181	950152.414	
	34	108	74	182	W		-48246.241	2.8531459332.840	2.864	B-	-2800.000	101.980	181	948205.519	
	32	107	75	182	Re	IT	-45446.241	102.0201455750.486	102.021	B-	-908.000	101.119	181	951211.444	10
	30	106	76	182	Os		-44538.241	25.1621454060.133	25.163	B-	-5534.440	141.983	181	952186.222	2
	28	105	77	182	Ir		-39003.801	144.1961447743.340	144.196	B-	-2924.842	141.825	181	958127.689	15
	26	104	78	182	Pt		-36078.959	201.9791444036.144	201.979	B-	-7780#	300#	181	961267.637	21
	24	103	79	182	Au	-	-28299#	362# 1435474#	362#	B-	-4780#	300#	181	969620#	38
	22	102	80	182	Hg	-	-23519#	470# 1429911#	470#	B-	-10115#	617#	181	974751#	50
	20	101	81	182	Tl	x	-13404#	401# 1419014#	401#	B-	-6582#	401#	181	985610#	43
	18	100	82	182	Pb	-a	-6822.167	17.0191411649.939	17.021	B-	*		181	992676.101	1
0	41	112	71	183	Lu	x	-39523#	298# 1461028#	298#	B-	3762#	300#	182	957570#	32
	39	111	72	183	Hf	+	-43285.577	30.1401464008.206	30.141	B-	2010.000	30.000	182	953531.012	3
	37	110	73	183	Ta	-n	-45295.577	2.9011465235.853	2.912	B-	1070.034	1.752	182	951373.188	
	35	109	74	183	W		-46365.611	2.7441465523.534	2.755	B-	-556.000	8.000	182	950224.458	
	33	108	75	183	Re	-	-45809.611	8.4571464185.180	8.461	B-	-2132#	103#	182	950821.349	
	31	107	76	183	Os	x	-43678#	102# 1461271#	102#	B-	-3450.000	100.000	182	953110#	11
	29	106	77	183	Ir	-	-40228#	143# 1457039#	143#	B-	-4578#	270#	182	956814#	15
	27	105	78	183	Pt	+a	-35650#	229# 1451678#	229#	B-	-5488#	461#	182	961729#	24
	25	104	79	183	Au	IT	-30161#	401# 1445408#	401#	B-	-6466#	499#	182	967620#	43
	23	103	80	183	Hg	+a	-23696#	298# 1438160#	298#	B-	-7578#	493#	182	974561#	32
	21	102	81	183	Tl	+a	-16118#	392# 1429799#	392#	B-	-8601#	498#	182	982697#	42
	19	101	82	183	Pb	x	-7517#	307# 1420416#	307#	B-	*		182	991930#	33
0	42	113	71	184	Lu	x	-36170#	401# 1465746#	401#	B-	5330#	403#	183	961170#	43
	40	112	72	184	Hf	+	-41500.026	39.7941470293.978	39.795	B-	1340.000	30.000	183	955447.880	4
	38	111	73	184	Ta	+	-42840.026	26.1451470851.624	26.146	B-	2866.000	26.000	183	954009.331	2
	36	110	74	184	W		-45706.026	2.7451472935.271	2.757	B-	-1482.692	4.387	183	950932.553	
	34	109	75	184	Re		-44223.334	5.2561470670.225	5.262	B-	31.187	4.360	183	952524.289	
	32	108	76	184	Os		-44254.521	2.9631469919.059	2.974	B-	-4562.000	270.000	183	952490.808	
	30	107	77	184	Ir	-	-39692.521	270.0161464574.705	270.016	B-	-2335#	325#	183	957388.318	28
	28	106	78	184	Pt	+a	-37358#	182# 1461458#	182#	B-	-7060#	60#	183	959895#	19
	26	105	79	184	Au	-	-30298#	191# 1453615#	191#	B-	-4120#	60#	183	967474#	20
	24	104	80	184	Hg	-	-26178#	200# 1448713#	200#	B-	-9187#	359#	183	971897#	21
	22	103	81	184	Tl	x	-16990#	298# 1438743#	298#	B-	-5997#	357#	183	981760#	32
	20	102	82	184	Pb	-a	-10993#	196# 1431964#	196#	B-	*		183	988198#	21
0	41	113	72	185	Hf	x	-38396#	298# 1475261#	298#	B-	3000#	298#	184	958780#	32
	39	112	73	185	Ta	+	-41396.439	14.4081477479.360	14.410	B-	1992.000	14.142	184	955559.086	1

37	111	74	185	W		-43388.439	2.7531478689.006	2.765	B-	432.994	0.883	184	953420.586		
35	110	75	185	Re		-43821.433	2.7931478339.647	2.805	B-	-1012.791	0.447	184	952955.747		
33	109	76	185	Os		-42808.642	2.8281476544.503	2.839	B-	-2372#	196#	184	954043.023		
31	108	77	185	Ir	x	-40436#	196# 1473390#	196#	B-	-3879#	285#	184	956590#	21	
29	107	78	185	Pt	-a	-36557.611	206.6491468728.765	206.649	B-	-4707.000	40.000	184	960753.782	22	
27	106	79	185	Au	-	-31850.611	210.4851463239.412	210.485	B-	-5753#	348#	184	965806.956	22	
25	105	80	185	Hg	+a	-26098#	277# 1456704#	277#	B-	-6630#	487#	184	971983#	29	
23	104	81	185	Tl	x	-19468#	401# 1449292#	401#	B-	-7899#	505#	184	979100#	43	
21	103	82	185	Pb	x	-11569#	307# 1440611#	307#	B-	-9434#	381#	184	987580#	33	
19	102	83	185	Bi	IT	-2135#	225# 1430395#	225#	B-	*		184	997708#	24	
0	42	114	72	186	Hf	x	-36403#	298# 1481339#	298#	B-	2208#	304#	185	960920#	32
40	113	73	186	Ta	+	-38610.327	60.0701482764.571	60.071	B-	3901.000	60.000	185	958550.100	6	
38	112	74	186	W		-42511.327	2.8991485883.217	2.910	B-	-581.556	1.716	185	954362.204		
36	111	75	186	Re		-41929.771	2.8321484519.309	2.844	B-	1069.517	0.910	185	954986.529		
34	110	76	186	Os		-42999.289	2.8751484806.472	2.886	B-	-3831.000	20.000	185	953838.355		
32	109	77	186	Ir	-	-39168.289	20.2061480193.119	20.207	B-	-1379.768	37.992	185	957951.104	2	
30	108	78	186	Pt		-37788.521	32.3851478030.998	32.386	B-	-6115.560	141.983	185	959432.346	3	
28	107	79	186	Au		-31672.961	144.2001471133.084	144.200	B-	-3225.158	141.825	185	965997.671	15	
26	106	80	186	Hg		-28447.803	201.9791467125.573	201.979	B-	-8466#	305#	185	969460.021	21	
24	105	81	186	Tl	-a	-19982#	365# 1457878#	365#	B-	-5359#	304#	185	978548#	39	
22	104	82	186	Pb	-a	-14623#	470# 1451736#	470#	B-	-11344#	649#	185	984301#	50	
20	103	83	186	Bi	-a	-3279#	448# 1439610#	448#	B-	*		185	996480#	48	
0	41	114	73	187	Ta	x	-36878#	298# 1489103#	298#	B-	3029#	298#	186	960410#	32
39	113	74	187	W		-39906.720	2.8971491349.933	2.909	B-	1311.151	1.265	186	957158.365		
37	112	75	187	Re		-41217.871	2.7751491878.731	2.787	B-	2.663	0.019	186	955750.787		
35	111	76	187	Os		-41220.534	2.7751491099.040	2.787	B-	-1502.409	6.000	186	955747.928		
33	110	77	187	Ir	-	-39718.125	6.6111488814.278	6.616	B-	-2978#	182#	186	957360.830		
31	109	78	187	Pt	+	-36740#	182# 1485054#	182#	B-	-3730#	100#	186	960558#	19	
29	108	79	187	Au	-a	-33010#	152# 1480542#	152#	B-	-4865#	283#	186	964562#	16	
27	107	80	187	Hg	IT	-28145#	239# 1474894#	239#	B-	-5947#	466#	186	969785#	25	
25	106	81	187	Tl	x	-22197#	401# 1468164#	401#	B-	-7322#	499#	186	976170#	43	
23	105	82	187	Pb	x	-14876#	298# 1460060#	298#	B-	-8782#	482#	186	984030#	32	
21	104	83	187	Bi	-a	-6094#	379# 1450496#	379#	B-	*		186	993458#	40	
0	42	115	73	188	Ta	x	-33804#	298# 1494101#	298#	B-	4865#	298#	187	963710#	32
40	114	74	188	W	+	-38669.148	4.0981498183.684	4.106	B-	349.000	3.000	187	958486.954		
38	113	75	188	Re	-n	-39018.148	2.7911497750.330	2.804	B-	2120.353	0.423	187	958112.287		
36	112	76	188	Os		-41138.501	2.7761499088.330	2.788	B-	-2809.357	6.895	187	955835.993		
34	111	77	188	Ir		-38329.144	7.3881495496.620	7.392	B-	-506.486	7.209	187	958851.962		
32	110	78	188	Pt		-37822.659	5.9211494207.781	5.926	B-	-5300#	100#	187	959395.697		
30	109	79	188	Au	-	-32523#	100# 1488125#	100#	B-	-2300#	150#	187	965085#	10	
28	108	80	188	Hg	-	-30223#	180# 1485043#	180#	B-	-7792#	287#	187	967555#	19	
26	107	81	188	Tl	x	-22430#	224# 1476468#	224#	B-	-4789#	300#	187	975920#	24	
24	106	82	188	Pb	-a	-17642#	200# 1470898#	200#	B-	-10351#	360#	187	981061#	21	
22	105	83	188	Bi	-a	-7291#	299# 1459764#	299#	B-	*		187	992173#	32	

0	41	115	74	189	W	+	-35478.534	200.1931503064.392	200.193	B-	2500.000	200.000	188	961912.220	21
	39	114	75	189	Re	+p	-37978.534	8.7841504782.039	8.788	B-	1009.267	8.372	188	959228.359	
	37	113	76	189	Os		-38987.800	2.7871505008.952	2.799	B-	-532.448	12.714	188	958144.866	
	35	112	77	189	Ir		-38455.352	12.9521503694.151	12.954	B-	-1970.508	13.946	188	958716.473	1
	33	111	78	189	Pt		-36484.845	11.4101500941.290	11.413	B-	-2850#	200#	188	960831.900	1
	31	110	79	189	Au	-	-33635#	200# 1497309#	200#	B-	-3950#	200#	188	963892#	21
	29	109	80	189	Hg	-	-29685#	283# 1492577#	283#	B-	-5176.558	200.094	188	968132#	30
	27	108	81	189	Tl	+a	-24508#	347# 1486618#	347#	B-	-6698#	439#	188	973689#	37
	25	107	82	189	Pb	x	-17810#	270# 1479137#	270#	B-	-8034#	483#	188	980880#	29
	23	106	83	189	Bi	-a	-9776#	401# 1470321#	401#	B-	*		188	989505#	43
0	42	116	74	190	W	+	-34298.032	223.4011509955.214	223.401	B-	1270.000	70.000	189	963179.541	23
	40	115	75	190	Re	+	-35568.032	212.1511510442.860	212.151	B-	3140.000	212.132	189	961816.139	22
	38	114	76	190	Os		-38708.032	2.8161512800.507	2.828	B-	-2000.000	200.000	189	958445.210	
	36	113	77	190	Ir	-	-36708.032	200.0201510018.153	200.020	B-	616.859	200.079	189	960592.299	21
	34	112	78	190	Pt		-37324.891	6.1541509852.659	6.159	B-	-4442.000	15.000	189	959930.073	
	32	111	79	190	Au	-	-32882.891	16.2131504628.305	16.215	B-	-1470#	150#	189	964698.757	1
	30	110	80	190	Hg	-	-31413#	151# 1502376#	151#	B-	-7000.000	400.000	189	966277#	16
	28	109	81	190	Tl	-	-24413#	428# 1494594#	428#	B-	-4088#	473#	189	973792#	45
	26	108	82	190	Pb	-a	-20325.188	202.0311489723.543	202.031	B-	-9630#	305#	189	978180.008	21
	24	107	83	190	Bi	-a	-10695#	365# 1479311#	365#	B-	-6140#	305#	189	988518#	39
	22	106	84	190	Po	-a	-4555#	470# 1472389#	470#	B-	*		189	995110#	50
0	41	116	75	191	Re	+p	-34350.148	10.5941517296.299	10.598	B-	2045.226	10.224	190	963123.592	1
	39	115	76	191	Os		-36395.374	2.8171518559.172	2.829	B-	313.689	1.145	190	960927.951	
	37	114	77	191	Ir		-36709.063	2.8701518090.508	2.882	B-	-1018.553	3.508	190	960591.191	
	35	113	78	191	Pt		-35690.511	4.7001516289.601	4.707	B-	-1830.000	50.000	190	961684.653	
	33	112	79	191	Au	-	-33860.511	50.2201513677.248	50.221	B-	-3180.000	70.000	190	963649.239	5
	31	111	80	191	Hg	-	-30680.511	86.1521509714.895	86.152	B-	-4493#	200#	190	967063.110	9
	29	110	81	191	Tl	+a	-26188#	218# 1504440#	218#	B-	-5881#	306#	190	971886#	23
	27	109	82	191	Pb	x	-20307#	214# 1497776#	214#	B-	-7315#	454#	190	978200#	23
	25	108	83	191	Bi	-a	-12991#	401# 1489679#	401#	B-	-8011#	500#	190	986053#	43
	23	107	84	191	Po	-a	-4980#	299# 1480885#	299#	B-	*		190	994653#	32
0	42	117	75	192	Re	x	-31708#	196# 1522726#	196#	B-	4174#	196#	191	965960#	21
	40	116	76	192	Os		-35882.031	3.4991526117.151	3.509	B-	-1046.208	2.322	191	961479.047	
	38	115	77	192	Ir		-34835.823	2.8711524288.590	2.883	B-	1459.689	1.853	191	962602.198	
	36	114	78	192	Pt		-36295.511	3.3991524965.925	3.409	B-	-3516.341	15.617	191	961035.158	
	34	113	79	192	Au	-	-32779.170	15.9831520667.230	15.985	B-	-710#	283#	191	964810.107	1
	32	112	80	192	Hg	+	-32069#	283# 1519175#	283#	B-	-6120#	200#	191	965572#	30
	30	111	81	192	Tl	--	-25949#	201# 1512273#	201#	B-	-3372#	270#	191	972142#	21
	28	110	82	192	Pb	-a	-22577#	180# 1508118#	180#	B-	-8947#	287#	191	975763#	19
	26	109	83	192	Bi	-a	-13629#	224# 1498388#	224#	B-	-5732#	300#	191	985368#	24
	24	108	84	192	Po	-a	-7897#	201# 1491873#	201#	B-	*		191	991522#	21
0	41	117	76	193	Os		-33395.840	3.5681531702.284	3.578	B-	1140.506	2.416	192	964148.083	
	39	116	77	193	Ir		-34536.346	2.8721532060.436	2.884	B-	-56.639	0.298	192	962923.700	
	37	115	78	193	Pt		-34479.707	2.8831531221.444	2.895	B-	-1068.648	9.160	192	962984.504	

	35	114	79	193	Au	4n	-33411.060	9.4651529370.443	9.468	B-	-2340.308	16.641	192	964131.745	1
	33	113	80	193	Hg	-	-31070.752	19.1441526247.782	19.146	B-	-3636#	249#	192	966644.169	2
	31	112	81	193	Tl	+a	-27434#	248# 1521829#	248#	B-	-5153#	310#	192	970548#	26
	29	111	82	193	Pb	x	-22281#	186# 1515894#	186#	B-	-6503#	394#	192	976080#	20
	27	110	83	193	Bi	-a	-15779#	347# 1508609#	347#	B-	-7490#	442#	192	983061#	37
	25	109	84	193	Po	-a	-8289#	275# 1500336#	275#	B-	-8464#	487#	192	991102#	29
	23	108	85	193	At	-a	175#	402# 1491090#	402#	B-	*		193	000188#	43
0	42	118	76	194	Os	+	-32435.255	3.5111538813.021	3.521	B-	96.600	2.000	193	965179.314	
	40	117	77	194	Ir		-32531.855	2.8851538127.268	2.897	B-	2246.791	1.563	193	965075.610	
	38	116	78	194	Pt		-34778.645	2.9271539591.705	2.939	B-	-2492.034	11.142	193	962663.581	
	36	115	79	194	Au	-	-32286.611	11.5201536317.317	11.523	B-	-40.000	20.000	193	965338.890	1
	34	114	80	194	Hg	-	-32246.611	23.0801535494.963	23.082	B-	-5283#	207#	193	965381.832	2
	32	113	81	194	Tl	+a	-26964#	206# 1529430#	206#	B-	-2713#	256#	193	971053#	22
	30	112	82	194	Pb	-a	-24250#	152# 1525934#	152#	B-	-8180.501	400.552	193	973966#	16
	28	111	83	194	Bi	-a	-16070#	428# 1516971#	428#	B-	-5156#	473#	193	982748#	45
	26	110	84	194	Po	-a	-10913.283	202.0571511032.221	202.057	B-	-9955#	344#	193	988284.107	21
	24	109	85	194	At	IT	-959#	398# 1500295#	398#	B-	*		193	998971#	42
0	43	119	76	195	Os	+	-29692.402	500.0081544141.491	500.008	B-	2000.000	500.000	194	968123.889	53
	41	118	77	195	Ir	-n	-31692.402	2.8871545359.137	2.899	B-	1119.983	1.570	194	965976.800	
	39	117	78	195	Pt		-32812.385	2.9271545696.767	2.939	B-	-226.800	1.000	194	964774.449	
	37	116	79	195	Au	-	-32585.585	3.0931544687.614	3.104	B-	-1510.000	50.000	194	965017.928	
	35	115	80	195	Hg	-	-31075.585	50.0961542395.260	50.096	B-	-2805#	139#	194	966638.981	5
	33	114	81	195	Tl	+a	-28271#	130# 1538808#	130#	B-	-4490#	432#	194	969650#	13
	31	113	82	195	Pb	+	-23780#	412# 1533535#	412#	B-	-5850#	350#	194	974471#	44
	29	112	83	195	Bi	-a	-17930#	218# 1526903#	218#	B-	-6795#	310#	194	980751#	23
	27	111	84	195	Po	-a	-11136#	220# 1519326#	220#	B-	-7925#	460#	194	988045#	23
	25	110	85	195	At	-a	-3210#	404# 1510618#	404#	B-	*		194	996554#	43
0	44	120	76	196	Os	+pp	-28296.408	40.2191550816.820	40.220	B-	1157.515	55.538	195	969622.550	4
	42	119	77	196	Ir	+	-29453.923	38.5221551191.982	38.523	B-	3209.016	38.411	195	968379.906	4
	40	118	78	196	Pt		-32662.940	2.9271553618.645	2.939	B-	-1505.695	2.863	195	964934.884	
	38	117	79	196	Au		-31157.245	4.0451551330.596	4.054	B-	686.016	3.086	195	966551.315	
	36	116	80	196	Hg		-31843.261	4.1111551234.259	4.119	B-	-4378#	136#	195	965814.846	
	34	115	81	196	Tl	+a	-27466#	136# 1546074#	136#	B-	-2045#	195#	195	970515#	14
	32	114	82	196	Pb	x	-25420#	140# 1543247#	140#	B-	-7357#	250#	195	972710#	15
	30	113	83	196	Bi	-a	-18064#	207# 1535108#	207#	B-	-4569#	274#	195	980608#	22
	28	112	84	196	Po	-a	-13495#	180# 1529757#	180#	B-	-9492#	292#	195	985512#	19
	26	111	85	196	At	-a	-4003#	229# 1519483#	229#	B-	-6154#	306#	195	995702#	24
	24	110	86	196	Rn	-a	2151#	203# 1512546#	203#	B-	*		196	002309#	21
0	43	120	77	197	Ir	+p	-28283.417	20.4351558092.798	20.436	B-	2154.634	20.224	196	969636.496	2
	41	119	78	197	Pt		-30438.051	2.9281559465.079	2.940	B-	718.919	0.594	196	967323.401	
	39	118	79	197	Au		-31156.971	2.9291559401.645	2.941	B-	-599.624	3.187	196	966551.609	
	37	117	80	197	Hg		-30557.346	4.3021558019.667	4.310	B-	-2180.503	32.216	196	967195.333	
	35	116	81	197	Tl	+a	-28376.843	32.0161555056.811	32.017	B-	-3580#	107#	196	969536.200	3
	33	115	82	197	Pb	x	-24796#	102# 1550694#	102#	B-	-5174#	263#	196	973380#	11

	31	114	83	197	Bi	+a	-19622.582	242.6981544737.843	242.698	B-	-6178#	310#	196	978934.287	26
	29	113	84	197	Po	-a	-13445#	193# 1537778#	193#	B-	-7194#	400#	196	985567#	20
	27	112	85	197	At	-a	-6250#	350# 1529801#	350#	B-	-7797#	448#	196	993290#	37
	25	111	86	197	Rn	-a	1547#	279# 1521221#	279#	B-	*		197	001661#	30
0	44	121	77	198	Ir	x	-25821#	196# 1563702#	196#	B-	4102#	196#	197	972280#	21
	42	120	78	198	Pt	-n	-29923.300	4.1921567021.651	4.200	B-	-325.310	3.060	197	967876.009	
	40	119	79	198	Au		-29597.990	2.9291565913.988	2.941	B-	1372.475	0.539	197	968225.244	
	38	118	80	198	Hg		-30970.466	2.9431566504.110	2.955	B-	-3460.000	80.000	197	966751.830	
	36	117	81	198	Tl	-	-27510.466	80.0541562261.756	80.055	B-	-1410#	123#	197	970466.294	8
	34	116	82	198	Pb	x	-26100#	93# 1560069#	93#	B-	-6562#	203#	197	971980#	10
	32	115	83	198	Bi	+a	-19538.646	180.2071552725.230	180.207	B-	-4022#	236#	197	979024.396	19
	30	114	84	198	Po	-a	-15516#	152# 1547920#	152#	B-	-8764.701	400.566	197	983343#	16
	28	113	85	198	At	-a	-6751#	428# 1538373#	428#	B-	-5615#	473#	197	992752#	45
	26	112	86	198	Rn	-a	-1136.443	202.1091531975.966	202.109	B-	*		197	998779.978	21
0	45	122	77	199	Ir	p-2n	-24417.100	41.2141570369.127	41.215	B-	2990.977	41.003	198	973787.159	4
	43	121	78	199	Pt	-n	-27408.077	4.2211572577.751	4.230	B-	1702.954	3.104	198	970576.213	
	41	120	79	199	Au		-29111.031	2.9311573498.351	2.943	B-	452.265	0.673	198	968748.016	
	39	119	80	199	Hg		-29563.297	2.9321573168.263	2.943	B-	-1445.071	98.504	198	968262.489	
	37	118	81	199	Tl		-28118.225	98.5181570940.839	98.519	B-	-2883.483	91.646	198	969813.837	10
	35	117	82	199	Pb		-25234.743	65.8641567275.002	65.864	B-	-4347.812	124.984	198	972909.384	7
	33	116	83	199	Bi	+a	-20886.930	119.7301562144.837	119.731	B-	-5606#	429#	198	977576.953	12
	31	115	84	199	Po	-a	-15281#	412# 1555757#	412#	B-	-6555#	354#	198	983595#	44
	29	114	85	199	At	-a	-8725#	223# 1548419#	223#	B-	-7150#	318#	198	990633#	24
	27	113	86	199	Rn	-a	-1575#	226# 1540486#	226#	B-	*		198	998309#	24
0	44	122	78	200	Pt	-nn	-26618.475	20.4351579859.472	20.436	B-	657.634	55.289	199	971423.885	2
	42	121	79	200	Au	+	-27276.109	51.5331579734.752	51.534	B-	2244.118	51.450	199	970717.886	5
	40	120	80	200	Hg		-29520.227	2.9341581196.516	2.946	B-	-2456.040	5.735	199	968308.726	
	38	119	81	200	Tl	-	-27064.187	6.4421577958.123	6.447	B-	-810.554	14.273	199	970945.394	
	36	118	82	200	Pb	4n	-26253.633	13.3261576365.215	13.329	B-	-5893.024	93.764	199	971815.560	1
	34	117	83	200	Bi	+a	-20360.609	92.8411569689.838	92.841	B-	-3347#	168#	199	978141.983	9
	32	116	84	200	Po	-a	-17014#	140# 1565561#	140#	B-	-7972#	250#	199	981735#	15
	30	115	85	200	At	-a	-9042#	207# 1556807#	207#	B-	-5016#	274#	199	990293#	22
	28	114	86	200	Rn	-a	-4027#	180# 1551009#	180#	B-	-10080#	296#	199	995677#	19
	26	113	87	200	Fr	-a	6054#	235# 1540146#	235#	B-	*		200	006499#	25
0	45	123	78	201	Pt	+	-23756.385	50.1851585068.704	50.185	B-	2660.000	50.000	200	974496.467	5
	43	122	79	201	Au		-26416.385	4.3021586946.350	4.310	B-	1262.699	3.161	200	971640.839	
	41	121	80	201	Hg		-27679.084	2.9311587426.696	2.944	B-	-482.975	15.053	200	970285.275	
	39	120	81	201	Tl	+nn	-27196.109	15.2861586161.368	15.288	B-	-1902.874	34.455	200	970803.770	1
	37	119	82	201	Pb	+a	-25293.236	31.1541583476.141	31.155	B-	-3841.604	44.184	200	972846.589	3
	35	118	83	201	Bi	+a	-21451.632	31.4491578852.184	31.450	B-	-4879#	107#	200	976970.721	3
	33	117	84	201	Po	-a	-16572#	102# 1573191#	102#	B-	-5848#	263#	200	982209#	11
	31	116	85	201	At	+a	-10724.374	242.6921566560.219	242.693	B-	-6566#	314#	200	988486.908	26
	29	115	86	201	Rn	-a	-4159#	199# 1559212#	199#	B-	-7872#	406#	200	995535#	21
	27	114	87	201	Fr	-a	3713#	354# 1550558#	354#	B-	*		201	003986#	38

0	46	124	78	202	Pt	x	-22598#	298#	1591982#	298#	B-	1818#	341#	201	975740#	32
	44	123	79	202	Au	+	-24415.916	166.4361593017.204	166.436	B-	2946.154	166.410	201	973788.431	17	
	42	122	80	202	Hg		-27362.070	2.9271595181.005	2.940	B-	-1364.606	14.955	201	970625.604		
	40	121	81	202	Tl		-25997.463	15.1901593034.045	15.192	B-	-49.571	14.905	201	972090.569	1	
	38	120	82	202	Pb		-25947.892	9.8551592202.120	9.859	B-	-5151.830	52.002	201	972143.786	1	
	36	119	83	202	Bi	+a	-20796.062	51.3361586267.937	51.336	B-	-2822#	106#	201	977674.504	5	
	34	118	84	202	Po	-a	-17975#	93#	1582664#	93#	B-	-7214#	203#	201	980704#	10
	32	117	85	202	At	+a	-10760.031	180.2021574667.199	180.202	B-	-4442#	236#	201	988448.629	19	
	30	116	86	202	Rn	-a	-6318#	152#	1569443#	152#	B-	-9379.647	400.672	201	993218#	16
	28	115	87	202	Fr	-a	3062#	428#	1559281#	428#	B-	*		202	003287#	45
0	45	124	79	203	Au		-23159.493	4.3081599832.105	4.316	B-	2123.955	3.540	202	975137.256		
	43	123	80	203	Hg		-25283.448	3.1651601173.706	3.177	B-	491.836	1.227	202	972857.096		
	41	122	81	203	Tl		-25775.284	2.9441600883.189	2.956	B-	-974.718	6.358	202	972329.088		
	39	121	82	203	Pb		-24800.566	6.9761599126.117	6.981	B-	-3253.361	21.858	202	973375.491		
	37	120	83	203	Bi		-21547.206	21.2551595090.403	21.256	B-	-4233.402	63.515	202	976868.118	2	
	35	119	84	203	Po		-17313.804	65.7211590074.648	65.722	B-	-5062.066	124.897	202	981412.863	7	
	33	118	85	203	At		-12251.737	119.7271584230.228	119.728	B-	-6026#	429#	202	986847.216	12	
	31	117	86	203	Rn	-a	-6226#	412#	1577422#	412#	B-	-7202#	357#	202	993316#	44
	29	116	87	203	Fr	-a	976#	229#	1569437#	229#	B-	-7603#	325#	203	001048#	24
	27	115	88	203	Ra	-a	8579#	231#	1561052#	231#	B-	*		203	009210#	24
0	46	125	79	204	Au	+	-20767#	200#	1605511#	200#	B-	3940#	200#	203	977705#	21
	44	124	80	204	Hg		-24707.278	3.0371608668.859	3.049	B-	-347.453	1.498	203	973475.640		
	42	123	81	204	Tl		-24359.825	2.9331607539.053	2.946	B-	763.718	0.177	203	973848.646		
	40	122	82	204	Pb		-25123.544	2.9311607520.418	2.944	B-	-4449.187	25.964	203	973028.761		
	38	121	83	204	Bi	+a	-20674.356	25.9211602288.877	25.923	B-	-2330.553	29.069	203	977805.161	2	
	36	120	84	204	Po	-a	-18343.803	13.3961599175.970	13.399	B-	-6478.024	93.762	203	980307.113	1	
	34	119	85	204	At	+a	-11865.779	92.8281591915.593	92.829	B-	-3822#	168#	203	987261.559	9	
	32	118	86	204	Rn	-a	-8044#	140#	1587311#	140#	B-	-8596#	250#	203	991365#	15
	30	117	87	204	Fr	-a	552#	207#	1577933#	207#	B-	-5481#	275#	204	000593#	22
	28	116	88	204	Ra	-a	6034#	181#	1571669#	181#	B-	*		204	006477#	19
0	47	126	79	205	Au	x	-18993#	298#	1611808#	298#	B-	3310#	298#	204	979610#	32
	45	125	80	205	Hg		-22303.593	4.6751614336.496	4.683	B-	1531.220	3.789	204	976056.104		
	43	124	81	205	Tl		-23834.813	2.9531615085.363	2.966	B-	-51.085	0.512	204	974412.270		
	41	123	82	205	Pb		-23783.728	2.9301614251.925	2.943	B-	-2708.389	7.070	204	974467.112		
	39	122	83	205	Bi		-21075.339	7.6531610761.183	7.658	B-	-3531.022	28.425	204	977374.688		
	37	121	84	205	Po	+a	-17544.318	29.4371606447.808	29.439	B-	-4537.266	42.957	204	981165.396	3	
	35	120	85	205	At	+a	-13007.052	31.4021601128.189	31.403	B-	-5246#	118#	204	986036.352	3	
	33	119	86	205	Rn	-a	-7761#	114#	1595100#	114#	B-	-6517#	263#	204	991668#	12
	31	118	87	205	Fr		-1244.512	237.4861587800.941	237.486	B-	-7007#	314#	204	998663.961	25	
	29	117	88	205	Ra	-a	5763#	205#	1580011#	205#	B-	*		205	006187#	22
0	46	126	80	206	Hg	+a	-20959.849	20.6121621064.075	20.614	B-	1307.213	20.411	205	977498.672	2	
	44	125	81	206	Tl		-22267.062	2.9691621588.935	2.982	B-	1533.536	0.657	205	976095.321		
	42	124	82	206	Pb		-23800.598	2.9081622340.117	2.921	B-	-3757.508	7.682	205	974449.002		
	40	123	83	206	Bi	-	-20043.090	8.2141617800.256	8.219	B-	-1846.582	12.225	205	978482.854		

	38	122	84	206	Po		-18196.508	9.9401615171.320	9.944	B-	-5713.784	51.981	205	980465.241	1
	36	121	85	206	At		-12482.724	51.3021608675.183	51.303	B-	-3317#	106#	205	986599.242	5
	34	120	86	206	Rn	-a	-9166#	93# 1604576#	93#	B-	-7756#	203#	205	990160#	10
	32	119	87	206	Fr	IT	-1409.457	180.1461596037.209	180.146	B-	-4932#	236#	205	998486.886	19
	30	118	88	206	Ra	-a	3523#	152# 1590322#	152#	B-	*		206	003782#	16
0	47	127	80	207	Hg	+	-16229.395	150.1141624404.944	150.114	B-	4815.000	150.000	206	982577.025	16
	45	126	81	207	Tl		-21044.395	5.8401628437.590	5.847	B-	1422.674	5.480	206	977407.908	
	43	125	82	207	Pb		-22467.068	2.9081629077.910	2.921	B-	-2398.235	2.126	206	975880.605	
	41	124	83	207	Bi		-20068.833	3.5811625897.322	3.592	B-	-2909.065	6.443	206	978455.217	
	39	123	84	207	Po		-17159.768	6.9931622205.903	6.999	B-	-3910.070	21.733	206	981578.228	
	37	122	85	207	At		-13249.698	21.1111617513.480	21.113	B-	-4611.793	63.432	206	985775.861	2
	35	121	86	207	Rn		-8637.905	65.7091612119.333	65.709	B-	-5712.441	122.285	206	990726.826	7
	33	120	87	207	Fr		-2925.464	115.5001605624.539	115.500	B-	-6397#	431#	206	996859.385	12
	31	119	88	207	Ra	-a	3472#	415# 1598445#	415#	B-	-7794#	364#	207	003727#	44
	29	118	89	207	Ac	-a	11265#	234# 1589869#	234#	B-	*		207	012094#	25
0	48	128	80	208	Hg	x	-13097#	298# 1629344#	298#	B-	3666#	298#	207	985940#	32
	46	127	81	208	Tl	+a	-16762.555	2.9311632227.074	2.944	B-	5001.007	1.704	207	982004.653	
	44	126	82	208	Pb		-21763.563	2.9091636445.728	2.921	B-	-2879.108	2.023	207	976635.850	
	42	125	83	208	Bi	+n	-18884.455	3.5211632784.267	3.532	B-	-1401.302	2.419	207	979726.699	
	40	124	84	208	Po	-a	-17483.154	3.2081630600.612	3.220	B-	-4984.842	25.907	207	981231.059	
	38	123	85	208	At	+a	-12498.312	25.8311624833.416	25.833	B-	-2839.872	29.036	207	986582.508	2
	36	122	86	208	Rn	-a	-9658.440	13.5001621211.191	13.503	B-	-6988.638	79.335	207	989631.237	1
	34	121	87	208	Fr		-2669.802	78.2121613440.200	78.212	B-	-4324#	160#	207	997133.849	8
	32	120	88	208	Ra	-a	1654#	140# 1608334#	140#	B-	-9043#	250#	208	001776#	15
	30	119	89	208	Ac	-a	10698#	207# 1598508#	207#	B-	*		208	011485#	22
0	47	128	81	209	Tl	+a	-13647.200	9.7151637183.042	9.720	B-	3981.507	9.578	208	985349.125	1
	45	127	82	209	Pb		-17628.707	3.1731640382.195	3.186	B-	644.184	1.141	208	981074.801	
	43	126	83	209	Bi		-18272.891	2.9921640244.025	3.005	B-	-1893.305	1.599	208	980383.241	
	41	125	84	209	Po	-a	-16379.586	3.2311637568.367	3.243	B-	-3486.479	7.483	208	982415.788	
	39	124	85	209	At		-12893.106	7.9201633299.534	7.925	B-	-3929.000	28.284	208	986158.678	
	37	123	86	209	Rn	-	-8964.106	29.3721628588.181	29.373	B-	-5159.346	42.760	208	990376.634	3
	35	122	87	209	Fr		-3804.760	31.1941622646.481	31.196	B-	-5615#	128#	208	995915.421	3
	33	121	88	209	Ra	-a	1811#	125# 1616249#	125#	B-	-7103#	273#	209	001944#	13
	31	120	89	209	Ac	-a	8913.219	242.6921608363.795	242.693	B-	*		209	009568.736	26
0	48	129	81	210	Tl	+a	-9253.857	11.4651640861.021	11.469	B-	5488.776	11.220	209	990065.574	1
	46	128	82	210	Pb		-14742.634	3.0251645567.444	3.038	B-	63.514	0.499	209	984173.129	
	44	127	83	210	Bi		-14806.147	2.9901644848.605	3.003	B-	1162.083	0.785	209	984104.944	
	42	126	84	210	Po		-15968.230	2.9091645228.334	2.922	B-	-3981.123	7.745	209	982857.396	
	40	125	85	210	At	-a	-11987.107	8.2731640464.858	8.277	B-	-2373.963	12.453	209	987131.308	
	38	124	86	210	Rn	-a	-9613.145	10.1721637308.542	10.176	B-	-6258.208	23.723	209	989679.862	1
	36	123	87	210	Fr		-3354.936	21.6601630267.980	21.662	B-	-3771#	96#	209	996398.327	2
	34	122	88	210	Ra	-a	416#	93# 1625715#	93#	B-	-8207#	209#	210	000446#	10
	32	121	89	210	Ac	-a	8622.654	186.9561616725.683	186.956	B-	-5378#	242#	210	009256.802	20
	30	120	90	210	Th	-a	14001#	153# 1610565#	153#	B-	*		210	015030#	16

0	47	129	82	211	Pb		-10496.563	2.9591649392.697	2.973	B-	1372.402	5.598	210	988731.474	
	45	128	83	211	Bi		-11868.965	5.8421649982.745	5.849	B-	578.709	5.508	210	987258.139	
	43	127	84	211	Po	-a	-12447.675	2.9531649779.101	2.966	B-	-786.122	2.545	210	986636.869	
	41	126	85	211	At	-a	-11661.552	3.8111648210.626	3.822	B-	-2891.919	6.730	210	987480.806	
	39	125	86	211	Rn	-a	-8769.633	7.1401644536.353	7.146	B-	-4605.233	21.419	210	990585.410	
	37	124	87	211	Fr		-4164.400	20.7191639148.767	20.721	B-	-4997.152	63.778	210	995529.332	2
	35	123	88	211	Ra	-a	832.752	65.9061633369.261	65.907	B-	-6291.495	132.210	211	000893.996	7
	33	122	89	211	Ac	-a	7124.247	125.8581626295.412	125.858	B-	-6716#	437#	211	007648.196	13
	31	121	90	211	Th	-a	13840#	418# 1618798#	418#	B-	*		211	014858#	44
0	48	130	82	212	Pb		-7556.749	2.6881654524.205	2.704	B-	573.756	2.016	211	991887.495	
	46	129	83	212	Bi		-8130.505	2.9301654315.608	2.944	B-	2254.017	1.701	211	991271.542	
	44	128	84	212	Po		-10384.522	2.9091655787.271	2.922	B-	-1753.912	2.874	211	988851.755	
	42	127	85	212	At	-a	-8630.610	4.0691653251.006	4.079	B-	42.624	4.109	211	990734.657	
	40	126	86	212	Rn	-a	-8673.233	4.1431652511.276	4.153	B-	-5128.888	25.980	211	990688.899	
	38	125	87	212	Fr		-3544.346	25.7711646600.035	25.773	B-	-3342.670	29.038	211	996194.988	2
	36	124	88	212	Ra	-a	-201.676	13.6161642475.011	13.619	B-	-7477.985	93.794	211	999783.492	1
	34	123	89	212	Ac	-a	7276.309	92.8281634214.673	92.829	B-	-4755#	168#	212	007811.441	9
	32	122	90	212	Th	-a	12032#	140# 1628677#	140#	B-	*		212	012916#	15
0	49	131	82	213	Pb	+	-3260#	100# 1658299#	100#	B-	1980#	100#	212	996500#	10
	47	130	83	213	Bi		-5239.806	7.5501659496.231	7.555	B-	1427.341	7.349	212	994374.836	
	45	129	84	213	Po		-6667.147	4.0311660141.219	4.041	B-	-73.242	5.478	212	992842.522	
	43	128	85	213	At	-a	-6593.906	5.5751659285.624	5.582	B-	-882.315	8.076	212	992921.150	
	41	127	86	213	Rn	-a	-5711.591	7.1401657620.956	7.145	B-	-2148.483	9.984	212	993868.354	
	39	126	87	213	Fr		-3563.108	8.1161654690.120	8.121	B-	-3885.263	28.560	212	996174.845	
	37	125	88	213	Ra	-a	322.155	29.5841650022.504	29.585	B-	-5801.196	65.886	213	000345.847	3
	35	124	89	213	Ac	-a	6123.351	58.9331643438.954	58.934	B-	-5950#	147#	213	006573.689	6
	33	123	90	213	Th	-a	12074#	134# 1636706#	134#	B-	-7658#	282#	213	012962#	14
	31	122	91	213	Pa	-a	19732.030	247.7891628265.569	247.790	B-	*		213	021183.209	26
0	50	132	82	214	Pb		-188.025	2.5331663298.127	2.550	B-	1024.161	11.328	213	999798.147	
	48	131	83	214	Bi		-1212.186	11.4261663539.935	11.430	B-	3272.073	11.180	213	998698.664	1
	46	130	84	214	Po		-4484.259	3.0251666029.654	3.039	B-	-1090.279	4.107	213	995185.949	
	44	129	85	214	At	-a	-3393.980	5.0551664157.022	5.063	B-	940.937	10.016	213	996356.412	
	42	128	86	214	Rn	-a	-4334.917	9.5681664315.605	9.572	B-	-3361.263	12.585	213	995346.275	1
	40	127	87	214	Fr	-a	-973.653	9.1521660171.988	9.157	B-	-1058.551	13.542	213	998954.740	
	38	126	88	214	Ra	-a	84.898	10.7921658331.084	10.795	B-	-6335.957	55.460	214	000091.141	1
	36	125	89	214	Ac	-a	6420.855	54.4901651212.774	54.491	B-	-4246#	108#	214	006893.072	5
	34	124	90	214	Th	-a	10666#	94# 1646185#	94#	B-	-8652#	215#	214	011451#	10
	32	123	91	214	Pa	-a	19318.465	193.5271636750.456	193.527	B-	*		214	020739.230	20
0	49	132	83	215	Bi	+	1706.821	96.1121668692.250	96.113	B-	2252.109	96.078	215	001832.349	10
	47	131	84	215	Po		-545.288	2.8541670162.006	2.869	B-	720.384	6.923	214	999414.609	
	45	130	85	215	At	-a	-1265.672	7.1231670100.036	7.129	B-	-81.925	10.210	214	998641.245	
	43	129	86	215	Rn	-a	-1183.747	8.1241669235.758	8.129	B-	-1487.441	10.307	214	998729.195	
	41	128	87	215	Fr	-a	303.694	7.5501666965.964	7.556	B-	-2215.247	10.037	215	000326.029	
	39	127	88	215	Ra	-a	2518.941	7.9981663968.363	8.003	B-	-3489.970	54.514	215	002704.195	

	37	126	89	215	Ac	-a	6008.911	54.1231659696.040	54.123	B-	-4914.342	81.290	215	006450.832	5
	35	125	90	215	Th	-a	10923.253	66.2131653999.345	66.213	B-	-6866.055	141.492	215	011726.597	7
	33	124	91	215	Pa	-a	17789.308	135.4261646350.936	135.427	B-	*		215	019097.612	14
0	50	133	83	216	Bi	+	5775#	100# 1672696#	100#	B-	4000#	100#	216	006199#	10
	48	132	84	216	Po		1774.680	2.6651675913.361	2.682	B-	-469.139	3.683	216	001905.198	
	46	131	85	216	At		2243.818	4.2341674661.869	4.244	B-	2003.351	8.009	216	002408.839	
	44	130	86	216	Rn	-a	240.468	7.7701675882.866	7.775	B-	-2729.016	14.480	216	000258.153	
	42	129	87	216	Fr	-a	2969.484	12.8861672371.496	12.889	B-	-307.886	15.258	216	003187.873	1
	40	128	88	216	Ra	-a	3277.370	9.1441671281.257	9.148	B-	-4846.438	28.423	216	003518.402	
	38	127	89	216	Ac	-a	8123.808	27.0301665652.466	27.031	B-	-2170.096	31.242	216	008721.268	2
	36	126	90	216	Th	-a	10293.904	15.8691662700.016	15.872	B-	-7506.616	106.601	216	011050.963	1
	34	125	91	216	Pa	-a	17800.520	105.4381654411.046	105.438	B-	*		216	019109.649	11
0	49	133	84	217	Po	-a	5825#	100# 1679934#	100#	B-	1438#	100#	217	006253#	10
	47	132	85	217	At		4386.981	7.5411680590.029	7.547	B-	740.598	7.903	217	004709.619	
	45	131	86	217	Rn	-a	3646.384	4.9551680548.273	4.964	B-	-653.813	7.548	217	003914.555	
	43	130	87	217	Fr	-a	4300.196	7.0521679112.107	7.058	B-	-1573.813	11.153	217	004616.452	
	41	129	88	217	Ra	-a	5874.010	9.5651676755.940	9.569	B-	-2819.321	15.620	217	006306.010	1
	39	128	89	217	Ac	-a	8693.330	13.0261673154.266	13.029	B-	-3477.726	31.662	217	009332.676	1
	37	127	90	217	Th	-a	12171.056	30.9561668894.187	30.957	B-	-4864.635	83.210	217	013066.169	3
	35	126	91	217	Pa	-a	17035.691	77.2861663247.198	77.286	B-	*		217	018288.571	8
0	50	134	84	218	Po		8351.563	2.5321685479.123	2.549	B-	264.838	11.719	218	008965.773	
	48	133	85	218	At	-a	8086.725	11.8131684961.608	11.817	B-	2883.107	11.715	218	008681.458	1
	46	132	86	218	Rn		5203.618	3.4741687062.361	3.486	B-	-1841.573	4.943	218	005586.315	
	44	131	87	218	Fr	-a	7045.191	5.4501684438.435	5.458	B-	409.278	12.040	218	007563.326	
	42	130	88	218	Ra	-a	6635.913	11.4911684065.359	11.495	B-	-4192.744	51.951	218	007123.948	1
	40	129	89	218	Ac	-a	10828.658	50.8311679090.262	50.832	B-	-1530.164	52.597	218	011625.045	5
	38	128	90	218	Th	-a	12358.822	14.1241676777.744	14.127	B-	-6278.420	75.225	218	013267.744	1
	36	127	91	218	Pa	-a	18637.242	73.9541669716.971	73.954	B-	-3241#	122#	218	020007.906	7
	34	126	92	218	U	-a	21878#	97# 1665694#	97#	B-	*		218	023487#	10
0	49	134	85	219	At	+a	10522.600	81.5081690597.056	81.508	B-	1696.853	81.468	219	011296.478	8
	47	133	86	219	Rn		8825.747	2.8391691511.556	2.855	B-	217.958	7.159	219	009474.831	
	45	132	87	219	Fr	-a	8607.788	7.3531690947.161	7.359	B-	-771.225	10.812	219	009240.843	
	43	131	88	219	Ra	-a	9379.013	8.6801689393.582	8.685	B-	-2176.092	51.143	219	010068.787	
	41	130	89	219	Ac	-a	11555.105	50.5671686435.137	50.568	B-	-2902.847	71.420	219	012404.918	5
	39	129	90	219	Th	-a	14457.952	50.6361682749.937	50.636	B-	-4060.470	89.285	219	015521.253	5
	37	128	91	219	Pa	-a	18518.422	73.6841677907.113	73.684	B-	-4690.142	107.741	219	019880.348	7
	35	127	92	219	U	-a	23208.564	82.9711672434.618	82.971	B-	*		219	024915.423	8
0	50	135	85	220	At	-a	14253#	112# 1694938#	112#	B-	3649#	112#	220	015301#	12
	48	134	86	220	Rn		10604.265	2.6651697804.360	2.681	B-	-865.199	4.125	220	011384.149	
	46	133	87	220	Fr		11469.463	4.6231696156.808	4.632	B-	1209.367	10.663	220	012312.978	
	44	132	88	220	Ra	-a	10260.096	10.3191696583.822	10.323	B-	-3481.399	52.495	220	011014.669	1
	42	131	89	220	Ac	-a	13741.495	51.6341692320.070	51.635	B-	-913.815	56.105	220	014752.105	5
	40	130	90	220	Th	-a	14655.310	22.3291690623.902	22.331	B-	-5722.509	61.015	220	015733.126	2
	38	129	91	220	Pa	-a	20377.819	56.8381684119.039	56.839	B-	-2641#	209#	220	021876.493	6

	36	128	92	220	U	-a	23019#	201#	1680696#	201#	B-	*		220	024712#	21
0	51	136	85	221	At	x	16897#	298#	1700365#	298#	B-	2501#	315#	221	018140#	32
	49	135	86	221	Rn	-a	14396#	100#	1702084#	100#	B-	1127#	100#	221	015455#	10
	47	134	87	221	Fr		13269.739		7.5301702427.855	7.536	B-	314.745	9.358	221	014245.654	
	45	133	88	221	Ra	-a	12954.995		7.0391701960.247	7.046	B-	-1553.717	50.813	221	013907.762	
	43	132	89	221	Ac	-a	14508.712		50.4951699624.176	50.496	B-	-2417.928	51.397	221	015575.746	5
	41	131	90	221	Th	-a	16926.640		10.4291696423.894	10.433	B-	-3439.301	52.548	221	018171.499	1
	39	130	91	221	Pa	-a	20365.941		51.6691692202.240	51.670	B-	-4180#	116#	221	021863.742	5
	37	129	92	221	U	-a	24546#	105#	1687240#	105#	B-	*		221	026351#	11
0	52	137	85	222	At	x	20800#	298#	1704533#	298#	B-	4433#	298#	222	022330#	32
	50	136	86	222	Rn		16366.787		2.5131708184.484	2.532	B-	24.698	20.978	222	017570.472	
	48	135	87	222	Fr		16342.089		21.1001707426.829	21.102	B-	2032.647	21.474	222	017543.957	2
	46	134	88	222	Ra		14309.441		4.9421708677.123	4.951	B-	-2298.025	6.672	222	015361.820	
	44	133	89	222	Ac	-a	16607.466		5.8181705596.745	5.826	B-	-582.444	13.550	222	017828.852	
	42	132	90	222	Th	-a	17189.909		12.9051704231.948	12.908	B-	-4910#	74#	222	018454.131	1
	40	131	91	222	Pa	-a	22100#	73#	1698539#	73#	B-	-2183#	124#	222	023726#	7
	38	130	92	222	U	-a	24284#	101#	1695573#	101#	B-	*		222	026070#	10
0	53	138	85	223	At	x	23604#	401#	1709801#	401#	B-	3307#	499#	223	025340#	43
	51	137	86	223	Rn	x	20297#	298#	1712325#	298#	B-	1918#	298#	223	021790#	32
	49	136	87	223	Fr		18379.037		2.7131713461.203	2.730	B-	1149.064	0.855	223	019730.712	
	47	135	88	223	Ra		17229.973		2.8291713827.914	2.845	B-	-585.807	7.221	223	018497.140	
	45	134	89	223	Ac	-a	17815.779		7.4141712459.754	7.420	B-	-1554.778	11.596	223	019126.030	
	43	133	90	223	Th	-a	19370.558		9.5921710122.622	9.597	B-	-2951.527	71.640	223	020795.153	1
	41	132	91	223	Pa	-a	22322.084		71.1131706388.742	71.113	B-	-3501.679	100.502	223	023963.748	7
	39	131	92	223	U	-a	25823.763		71.1621702104.710	71.162	B-	*		223	027722.956	7
0	52	138	86	224	Rn	x	22440#	298#	1718254#	298#	B-	796#	302#	224	024090#	32
	50	137	87	224	Fr		21643.737		48.9691718267.826	48.970	B-	2825.694	48.899	224	023235.513	5
	48	136	88	224	Ra		18818.043		2.6621720311.167	2.680	B-	-1403.231	4.186	224	020202.004	
	46	135	89	224	Ac	-a	20221.274		4.6761718125.582	4.685	B-	232.115	12.660	224	021708.435	
	44	134	90	224	Th	-a	19989.160		12.3511717575.343	12.355	B-	-3870.920	53.106	224	021459.250	1
	42	133	91	224	Pa	-a	23860.080		51.8111712922.070	51.812	B-	-1839.965	57.580	224	025614.854	5
	40	132	92	224	U	-a	25700.045		25.4531710299.751	25.455	B-	*		224	027590.139	2
0	53	139	86	225	Rn	x	26492#	298#	1722274#	298#	B-	2639#	298#	225	028440#	32
	51	138	87	225	Fr		23852.683		10.4421724130.203	10.446	B-	1865.271	9.977	225	025606.914	1
	49	137	88	225	Ra		21987.412		3.0901725213.120	3.105	B-	357.589	7.262	225	023604.463	
	47	136	89	225	Ac		21629.824		7.5171724788.355	7.523	B-	-671.482	9.599	225	023220.576	
	45	135	90	225	Th	-a	22301.306		7.3521723334.520	7.358	B-	-2024.817	71.319	225	023941.441	
	43	134	91	225	Pa	-a	24326.123		71.0621720527.350	71.062	B-	-3045.237	87.417	225	026115.172	7
	41	133	92	225	U	-a	27371.360		51.0761716699.759	51.077	B-	-4205.993	88.098	225	029384.369	5
	39	132	93	225	Np	-a	31577.352		71.90017111711.413	71.901	B-	*		225	033899.689	7
0	54	140	86	226	Rn	x	28774#	401#	1728063#	401#	B-	1441#	411#	226	030890#	43
	52	139	87	226	Fr		27333.218		90.9911728720.990	90.992	B-	3670.895	90.962	226	029343.423	9
	50	138	88	226	Ra		23662.324		2.5001731609.532	2.520	B-	-640.210	3.273	226	025402.555	
	48	137	89	226	Ac		24302.533		3.5151730186.969	3.528	B-	1117.017	4.655	226	026089.848	

	46	136	90	226	Th		23185.517	4.9581730521.632	4.967	B-	-2833.669	12.184	226	024890.681	
	44	135	91	226	Pa	-a	26019.186	11.7261726905.609	11.730	B-	-1310.611	21.736	226	027932.750	1
	42	134	92	226	U	-a	27329.797	18.7551724812.645	18.757	B-	-5393#	90#	226	029339.750	2
	40	133	93	226	Np	-a	32723#	88# 1718638#	88#	B-	*		226	035129#	9
0	55	141	86	227	Rn	+a	32981#	423# 1731927#	423#	B-	3329#	434#	227	035407#	45
	53	140	87	227	Fr		29652.399	95.5751734473.132	95.575	B-	2480.093	95.544	227	031833.167	10
	51	139	88	227	Ra		27172.306	2.5151736170.872	2.534	B-	1326.166	2.423	227	029170.677	
	49	138	89	227	Ac		25846.141	2.7091736714.684	2.726	B-	44.824	0.830	227	027746.979	
	47	137	90	227	Th		25801.317	2.8251735977.154	2.841	B-	-1019.327	7.532	227	027698.859	
	45	136	91	227	Pa	-a	26820.644	7.7161734175.474	7.722	B-	-2186.140	18.394	227	028793.151	
	43	135	92	227	U	-a	29006.783	17.0681731206.981	17.071	B-	-3556.622	74.423	227	031140.069	1
	41	134	93	227	Np	-a	32563.406	72.5551726868.005	72.556	B-	*		227	034958.261	7
0	56	142	86	228	Rn	+a	35475#	468# 1737504#	468#	B-	2199#	509#	228	038084#	50
	54	141	87	228	Fr	+	33276#	200# 1738921#	200#	B-	4340#	200#	228	035723#	21
	52	140	88	228	Ra	+a	28936.019	2.4851742478.482	2.505	B-	45.900	0.894	228	031064.101	
	50	139	89	228	Ac	-	28890.119	2.6411741742.028	2.659	B-	2127.045	2.979	228	031014.825	
	48	138	90	228	Th		26763.075	2.6581743086.719	2.676	B-	-2147.646	4.435	228	028731.348	
	46	137	91	228	Pa	-a	28910.721	4.8971740156.720	4.906	B-	-306.848	16.309	228	031036.942	
	44	136	92	228	U	-a	29217.569	16.0051739067.519	16.008	B-	-4484#	196#	228	031366.357	1
	42	135	93	228	Np	x	33701#	196# 1733801#	196#	B-	-2373#	198#	228	036180#	21
	40	134	94	228	Pu	-a	36074.602	32.5931730645.779	32.594	B-	*		228	038727.686	3
0	55	142	87	229	Fr	+a	35793#	359# 1744475#	359#	B-	3358#	364#	229	038426#	38
	53	141	88	229	Ra	+	32434.904	62.1171747050.920	62.118	B-	1760.000	40.000	229	034820.309	6
	51	140	89	229	Ac	+	30674.904	47.5241748028.566	47.525	B-	1095.000	47.434	229	032930.871	5
	49	139	90	229	Th		29579.904	2.9251748341.213	2.941	B-	-310.431	8.827	229	031755.340	
	47	138	91	229	Pa	-a	29890.335	9.0281747248.429	9.033	B-	-1311.112	11.245	229	032088.601	
	45	137	92	229	U	-a	31201.446	7.9611745154.964	7.967	B-	-2562.287	87.154	229	033496.137	
	43	136	93	229	Np	-a	33763.734	86.8891741810.323	86.890	B-	-3625.437	112.435	229	036246.866	9
	41	135	94	229	Pu	-a	37389.171	71.4761737402.532	71.476	B-	*		229	040138.934	7
0	56	143	87	230	Fr	+a	39598#	448# 1748741#	448#	B-	5054#	449#	230	042510#	48
	54	142	88	230	Ra	-4n	34544.239	32.6981753012.907	32.700	B-	987.038	105.191	230	037084.774	3
	52	141	89	230	Ac	+	33557.201	100.0201753217.592	100.021	B-	2700.000	100.000	230	036025.144	10
	50	140	90	230	Th		30857.201	2.0171755135.239	2.042	B-	-1309.668	2.837	230	033126.574	
	48	139	91	230	Pa		32166.869	3.4591753043.217	3.473	B-	563.712	4.713	230	034532.562	
	46	138	92	230	U	-a	31603.158	5.0091752824.575	5.018	B-	-3619.039	51.468	230	033927.392	
	44	137	93	230	Np	-a	35222.197	51.3571748423.183	51.357	B-	-1707.439	56.617	230	037812.591	5
	42	136	94	230	Pu	-a	36929.636	24.1821745933.390	24.184	B-	*		230	039645.603	2
0	57	144	87	231	Fr	+a	42296#	519# 1754114#	519#	B-	3900#	598#	231	045407#	55
	55	143	88	231	Ra	x	38396#	298# 1757232#	298#	B-	2486#	314#	231	041220#	32
	53	142	89	231	Ac	+	35910.488	100.0201758935.628	100.021	B-	2100.000	100.000	231	038551.503	10
	51	141	90	231	Th		33810.488	2.0231760253.274	2.047	B-	389.515	1.685	231	036297.060	
	49	140	91	231	Pa		33420.973	2.5861759860.436	2.605	B-	-382.155	3.220	231	035878.898	
	47	139	92	231	U	-a	33803.128	4.1211758695.928	4.132	B-	-1810.827	50.653	231	036289.158	
	45	138	93	231	Np	-a	35613.955	50.5921756102.748	50.593	B-	-2818#	113#	231	038233.161	5

	43	137	94	231	Pu	-a	38432#	101#	1752503#	101#	B-	-4007#	315#	231	041258#	10
	41	136	95	231	Am	x	42439#	298#	1747713#	298#	B-	*		231	045560#	32
0	58	145	87	232	Fr	+a	46253#	639#	1758229#	639#	B-	5553#	733#	232	049654#	68
	56	144	88	232	Ra	+a	40700#	359#	1763000#	359#	B-	1556#	373#	232	043693#	38
	54	143	89	232	Ac	+	39143.677	100.021	1763773.762	100.021	B-	3700.000	100.000	232	042022.474	10
	52	142	90	232	Th		35443.677	2.036	1766691.409	2.061	B-	-494.958	7.826	232	038050.360	
	50	141	91	232	Pa	+	35938.635	7.890	1765414.097	7.897	B-	1337.103	7.428	232	038581.720	
	48	140	92	232	U	-a	34601.531	2.662	1765968.847	2.680	B-	-2750#	100#	232	037146.280	
	46	139	93	232	Np	-	37352#	100#	1762436#	100#	B-	-1007#	102#	232	040099#	10
	44	138	94	232	Pu	-a	38358.400	18.966	1760647.272	18.968	B-	-5040#	299#	232	041179.445	2
	42	137	95	232	Am	x	43398#	298#	1754825#	298#	B-	*		232	046590#	32
0	57	145	88	233	Ra	+a	44707#	468#	1767064#	468#	B-	3209#	555#	233	047995#	50
	55	144	89	233	Ac	x	41498#	298#	1769491#	298#	B-	2769#	298#	233	044550#	32
	53	143	90	233	Th		38728.649	2.049	1771477.760	2.074	B-	1245.117	1.437	233	041576.923	
	51	142	91	233	Pa		37483.532	2.259	1771940.523	2.281	B-	570.111	2.035	233	040240.235	
	49	141	92	233	U		36913.421	2.804	1771728.280	2.821	B-	-1028.513	51.640	233	039628.196	
	47	140	93	233	Np	-a	37941.934	51.669	1769917.414	51.670	B-	-2100.723	72.213	233	040732.350	5
	45	139	94	233	Pu	-a	40042.657	50.630	1767034.337	50.631	B-	-3246#	224#	233	042987.570	5
	43	138	95	233	Am	-a	43289#	218#	1763006#	218#	B-	-4031#	456#	233	046472#	23
	41	137	96	233	Cm	x	47320#	401#	1758192#	401#	B-	*		233	050800#	43
0	58	146	88	234	Ra	+a	47085#	539#	1772758#	539#	B-	1982#	671#	234	050547#	57
	56	145	89	234	Ac	x	45103#	401#	1773957#	401#	B-	4494#	401#	234	048420#	43
	54	144	90	234	Th	+a	40608.938	3.542	1777668.793	3.556	B-	273.088	3.172	234	043595.497	
	52	143	91	234	Pa	IT	40335.850	4.754	1777159.528	4.765	B-	2195.269	4.498	234	043302.325	
	50	142	92	234	U		38140.580	1.976	1778572.444	2.002	B-	-1809.846	8.321	234	040945.606	
	48	141	93	234	Np	-	39950.426	8.552	1775980.244	8.558	B-	-387.618	10.847	234	042888.556	
	46	140	94	234	Pu	-a	40338.044	7.139	1774810.273	7.146	B-	-4182#	208#	234	043304.681	
	44	139	95	234	Am	-a	44520#	207#	1769846#	207#	B-	-2279#	363#	234	047794#	22
	42	138	96	234	Cm	x	46798#	298#	1766785#	298#	B-	*		234	050240#	32
0	57	146	89	235	Ac	+a	47601#	423#	1779530#	423#	B-	3351#	426#	235	051102#	45
	55	145	90	235	Th	+n2p	44250.076	50.039	1782098.978	50.040	B-	1926.014	70.721	235	047504.420	5
	53	144	91	235	Pa	+	42324.062	50.039	1783242.638	50.040	B-	1410.000	50.000	235	045436.759	5
	51	143	92	235	U		40914.062	1.970	1783870.285	1.996	B-	-123.716	0.869	235	043923.062	
	49	142	93	235	Np		41037.778	2.148	1782964.215	2.171	B-	-1141.661	20.680	235	044055.876	
	47	141	94	235	Pu	-a	42179.440	20.760	1781040.200	20.762	B-	-2559#	207#	235	045281.500	2
	45	140	95	235	Am	-a	44739#	206#	1777698#	206#	B-	-3318#	305#	235	048029#	22
	43	139	96	235	Cm	-a	48057#	224#	1773598#	224#	B-	-4647#	459#	235	051591#	24
	41	138	97	235	Bk	x	52704#	401#	1768169#	401#	B-	*		235	056580#	43
0	58	147	89	236	Ac	+a	51398#	499#	1783805#	499#	B-	5093#	581#	236	055178#	53
	56	146	90	236	Th	x	46305#	298#	1788116#	298#	B-	964#	359#	236	049710#	32
	54	145	91	236	Pa	+	45340.627	200.009	1788297.396	200.010	B-	2900.000	200.000	236	048675.176	21
	52	144	92	236	U		42440.627	1.948	1790415.042	1.974	B-	-929.469	50.427	236	045561.897	
	50	143	93	236	Np	IT	43370.097	50.459	1788703.219	50.460	B-	476.585	50.389	236	046559.724	5
	48	142	94	236	Pu	-a	42893.512	2.663	1788397.451	2.682	B-	-3280#	100#	236	046048.088	

	46	141	95	236	Am	-	46174#	100#	1784335#	100#	B-	-1710#	224#	236	049569#	10
	44	140	96	236	Cm	-a	47883#	201#	1781843#	201#	B-	-5519#	448#	236	051405#	21
	42	139	97	236	Bk	x	53403#	401#	1775541#	401#	B-	*		236	057330#	43
0	57	147	90	237	Th	+a	50202#	359#	1792290#	359#	B-	2566#	373#	237	053894#	38
	55	146	91	237	Pa	+	47636.065	100.0201794073.281	100.021	B-	2250.000	100.000	237	051139.430	10	
	53	145	92	237	U		45386.065	2.0001795540.927	2.026	B-	518.565	0.555	237	048723.955		
	51	144	93	237	Np		44867.501	1.9611795277.138	1.986	B-	-220.318	1.298	237	048167.253		
	49	143	94	237	Pu		45087.818	2.3421794274.467	2.363	B-	-1459.627	51.899	237	048403.774		
	47	142	95	237	Am	-a	46547.445	51.9101792032.487	51.911	B-	-2720#	213#	237	049970.748	5	
	45	141	96	237	Cm	-a	49268#	206#	1788530#	206#	B-	-3946#	361#	237	052891#	22
	43	140	97	237	Bk	-a	53214#	296#	1783802#	296#	B-	-4604#	584#	237	057127#	31
	41	139	98	237	Cf	x	57818#	503#	1778415#	503#	B-	*		237	062070#	54
0	58	148	90	238	Th	+a	52390#	361#	1798173#	361#	B-	1626#	366#	238	056243#	38
	56	147	91	238	Pa	+	50763.664	60.0331799017.005	60.034	B-	3460.000	60.000	238	054497.046	6	
	54	146	92	238	U		47303.664	1.9801801694.651	2.006	B-	-147.065	1.145	238	050782.583		
	52	145	93	238	Np		47450.729	1.9701800765.233	1.996	B-	1292.041	0.689	238	050940.464		
	50	144	94	238	Pu		46158.688	1.9821801274.921	2.008	B-	-2258.350	50.688	238	049553.400		
	48	143	95	238	Am	-a	48417.037	50.7261798234.218	50.727	B-	-967.319	62.536	238	051977.839	5	
	46	142	96	238	Cm	-a	49384.356	36.6621796484.545	36.663	B-	-4890#	290#	238	053016.298	3	
	44	141	97	238	Bk	-a	54274#	288#	1790812#	288#	B-	-2929#	493#	238	058266#	30
	42	140	98	238	Cf	x	57203#	401#	1787101#	401#	B-	*		238	061410#	43
0	57	148	91	239	Pa	x	53216#	298#	1804636#	298#	B-	2648#	298#	239	057130#	32
	55	147	92	239	U	-n	50568.731	1.9921806500.907	2.018	B-	1263.457	1.472	239	054287.777		
	53	146	93	239	Np		49305.273	2.1331806982.011	2.158	B-	721.796	0.874	239	052931.399		
	51	145	94	239	Pu		48583.478	1.9711806921.454	1.998	B-	-802.912	2.011	239	052156.519		
	49	144	95	239	Am	-a	49386.389	2.8031805336.188	2.821	B-	-1800#	100#	239	053018.481		
	47	143	96	239	Cm	-	51186#	100#	1802754#	100#	B-	-3177#	304#	239	054951#	10
	45	142	97	239	Bk	-a	54364#	287#	1798794#	287#	B-	-3928#	369#	239	058362#	30
	43	141	98	239	Cf	-a	58292#	231#	1794084#	231#	B-	*		239	062579#	24
0	58	149	91	240	Pa	x	56802#	298#	1809121#	298#	B-	4093#	298#	240	060980#	32
	56	148	92	240	U	+a	52709.264	5.1931812431.697	5.203	B-	388.346	15.793	240	056585.734		
	54	147	93	240	Np	+	52320.918	15.1541812037.689	15.158	B-	2199.599	15.029	240	056168.828	1	
	52	146	94	240	Pu		50121.319	1.9471813454.935	1.974	B-	-1378.952	13.790	240	053807.460		
	50	145	95	240	Am	+n	51500.271	13.9251811293.630	13.929	B-	-215.380	13.941	240	055287.826	1	
	48	144	96	240	Cm	-a	51715.651	2.7321810295.896	2.751	B-	-3940#	150#	240	055519.046		
	46	143	97	240	Bk	-	55656#	150#	1805574#	150#	B-	-2371#	251#	240	059749#	16
	44	142	98	240	Cf	-a	58027#	201#	1802420#	201#	B-	-6172#	448#	240	062295#	21
	42	141	99	240	Es	x	64199#	401#	1795466#	401#	B-	*		240	068920#	43
0	57	149	92	241	U	x	56197#	298#	1817015#	298#	B-	1941#	306#	241	060330#	32
	55	148	93	241	Np	+	54256.039	70.7371818173.891	70.738	B-	1305.000	70.711	241	058246.266	7	
	53	147	94	241	Pu		52951.039	1.9481818696.538	1.975	B-	20.815	0.199	241	056845.291		
	51	146	95	241	Am		52930.224	1.9571817935.000	1.984	B-	-767.357	1.173	241	056822.944		
	49	145	96	241	Cm		53697.581	2.2781816385.289	2.301	B-	-2400#	200#	241	057646.736		
	47	144	97	241	Bk	-	56098#	200#	1813203#	200#	B-	-3254#	324#	241	060223#	21

	45	143	98	241	Cf	-a	59351#	255#	1809167#	255#	B-	-4607#	392#	241	063716#	27
	43	142	99	241	Es	-a	63959#	298#	1803777#	298#	B-	*		241	068662#	32
0	58	150	92	242	U	+a	58614#	201#	1822669#	201#	B-	1201#	288#	242	062925#	21
	56	149	93	242	Np	IT	57413#	206#	1823088#	206#	B-	2700#	206#	242	061635#	22
	54	148	94	242	Pu		54713.012		1.9661825005.887	1.993	B-	-750.963	0.718	242	058736.847	
	52	147	95	242	Am		55463.975		1.9601823472.571	1.986	B-	664.820	0.663	242	059543.039	
	50	146	96	242	Cm	-a	54799.156		1.9841823355.037	2.011	B-	-3000#	200#	242	058829.326	
	48	145	97	242	Bk	-	57799#	200#	1819573#	200#	B-	-1526#	203#	242	062050#	21
	46	144	98	242	Cf	-a	59325.645		36.8871817263.841	36.888	B-	-5598#	327#	242	063688.713	3
	44	143	99	242	Es	-a	64924#	325#	1810883#	325#	B-	-3476#	516#	242	069699#	34
	42	142	100	242	Fm	x	68400#	401#	1806625#	401#	B-	*		242	073430#	43
0	57	150	93	243	Np	IT	59870#	32#	1828703#	32#	B-	2120#	32#	243	064273#	3
	55	149	94	243	Pu		57749.837		3.2481830040.386	3.265	B-	581.556	2.809	243	061997.013	
	53	148	95	243	Am		57168.280		2.1781829839.589	2.203	B-	-8.908	1.434	243	061372.686	
	51	147	96	243	Cm	-a	57177.189		2.2101829048.327	2.235	B-	-1508.387	4.646	243	061382.249	
	49	146	97	243	Bk	-a	58685.576		4.9391826757.586	4.950	B-	-2254#	142#	243	063001.570	
	47	145	98	243	Cf	-a	60939#	142#	1823722#	142#	B-	-3921#	321#	243	065421#	15
	45	144	99	243	Es	-a	64861#	288#	1819018#	288#	B-	-4545#	372#	243	069631#	30
	43	143	100	243	Fm	-a	69406#	237#	1813691#	237#	B-	*		243	074510#	25
0	58	151	93	244	Np	x	63202#	298#	1833442#	298#	B-	3402#	298#	244	067850#	32
	56	150	94	244	Pu		59799.717		5.0931836061.829	5.103	B-	-76.177	4.813	244	064197.650	
	54	149	95	244	Am		59875.894		2.1221835203.298	2.148	B-	1428.055	0.874	244	064279.429	
	52	148	96	244	Cm		58447.839		1.9471835849.000	1.975	B-	-2255.643	14.358	244	062746.349	
	50	147	97	244	Bk	-a	60703.482		14.4891832811.004	14.492	B-	-766.161	14.617	244	065167.882	1
	48	146	98	244	Cf	-a	61469.643		3.2821831262.489	3.298	B-	-4637#	181#	244	065990.390	
	46	145	99	244	Es	-a	66107#	181#	1825843#	181#	B-	-2895#	337#	244	070969#	19
	44	144	100	244	Fm	-a	69002#	284#	1822165#	284#	B-	*		244	074077#	30
0	57	151	94	245	Pu	-n	63098.143		14.4311840834.725	14.435	B-	1204.663	14.697	245	067738.657	1
	55	150	95	245	Am	+a	61893.480		3.8831841257.034	3.897	B-	894.059	2.776	245	066445.398	
	53	149	96	245	Cm		60999.422		2.7151841368.740	2.735	B-	-810.213	2.430	245	065485.586	
	51	148	97	245	Bk	-a	61809.635		2.4661839776.173	2.488	B-	-1568#	100#	245	066355.386	
	49	147	98	245	Cf	-a	63378#	100#	1837425#	100#	B-	-3054#	224#	245	068039#	10
	47	146	99	245	Es	-a	66432#	200#	1833589#	200#	B-	-3780#	340#	245	071317#	21
	45	145	100	245	Fm	-a	70212#	275#	1829027#	275#	B-	-5255#	466#	245	075375#	29
	43	144	101	245	Md	IT	75467#	376#	1822989#	376#	B-	*		245	081017#	40
0	58	152	94	246	Pu		65389.406		15.2711846614.785	15.274	B-	400.534	13.754	246	070198.429	1
	56	151	95	246	Am	IT	64988.872		18.1891846232.966	18.192	B-	2376.136	18.075	246	069768.438	1
	54	150	96	246	Cm		62612.736		2.2011847826.748	2.225	B-	-1350.000	60.000	246	067217.551	
	52	149	97	246	Bk	-	63962.736		60.0401845694.395	60.041	B-	-122.930	60.023	246	068666.836	6
	50	148	98	246	Cf	-a	64085.667		2.2211844789.111	2.246	B-	-3880#	224#	246	068798.807	
	48	147	99	246	Es	-a	67966#	224#	1840126#	224#	B-	-2158#	227#	246	072965#	24
	46	146	100	246	Fm	-a	70124.380		39.5891837185.691	39.591	B-	-6195#	387#	246	075281.634	4
	44	145	101	246	Md	-a	76320#	385#	1830208#	385#	B-	*		246	081933#	41
0	59	153	94	247	Pu	x	68996#	298#	1851080#	298#	B-	1848#	314#	247	074070#	32

	57	152	95	247	Am	+	67148#	100#	1852146#	100#	B-	1620#	100#	247	072086#	10
	55	151	96	247	Cm		65527.622	4.434	1852983.185	4.446	B-	44.970	6.549	247	070346.811	
	53	150	97	247	Bk	-a	65482.652	5.529	1852245.802	5.540	B-	-646.000	6.000	247	070298.533	
	51	149	98	247	Cf	-	66128.652	8.159	1850817.448	8.166	B-	-2476#	31#	247	070992.043	
	49	148	99	247	Es	-a	68604#	30#	1847560#	30#	B-	-2952#	153#	247	073650#	3
	47	147	100	247	Fm	-a	71556#	150#	1843825#	150#	B-	-4644#	394#	247	076819#	16
	45	146	101	247	Md	IT	76200#	365#	1838399#	365#	B-	*		247	081804#	39
0	58	153	95	248	Am	+	70556#	200#	1856808#	200#	B-	3170#	200#	248	075745#	21
	56	152	96	248	Cm		67386.359	5.095	1859195.771	5.106	B-	-687#	71#	248	072342.247	
	54	151	97	248	Bk	IT	68074#	71#	1857726#	71#	B-	840#	71#	248	073080#	7
	52	150	98	248	Cf	-a	67233.439	5.442	1857783.984	5.453	B-	-3055#	53#	248	072178.080	
	50	149	99	248	Es	-a	70289#	52#	1853946#	52#	B-	-1608#	54#	248	075458#	5
	48	148	100	248	Fm	-a	71896.805	11.791	1851555.911	11.795	B-	-5332#	238#	248	077184.411	1
	46	147	101	248	Md	-a	77229#	237#	1845441#	237#	B-	*		248	082909#	25
0	59	154	95	249	Am	x	73104#	298#	1862332#	298#	B-	2359#	298#	249	078480#	32
	57	153	96	249	Cm	-n	70744.222	5.104	1863909.230	5.115	B-	900.871	5.349	249	075947.062	
	55	152	97	249	Bk	+	69843.351	3.143	1864027.748	3.160	B-	124.000	1.414	249	074979.937	
	53	151	98	249	Cf	-a	69719.351	2.806	1863369.394	2.826	B-	-1451#	30#	249	074846.818	
	51	150	99	249	Es	-a	71170#	30#	1861136#	30#	B-	-2440#	145#	249	076405#	3
	49	149	100	249	Fm	-a	73611#	142#	1857913#	142#	B-	-3705#	265#	249	079024#	15
	47	148	101	249	Md	-a	77316#	224#	1853426#	224#	B-	-4491#	407#	249	083002#	24
	45	147	102	249	No	-a	81807#	340#	1848153#	340#	B-	*		249	087823#	36
0	58	154	96	250	Cm	-nn	72983.184	11.223	1869741.591	11.228	B-	37.407	11.612	250	078350.687	1
	56	153	97	250	Bk	+a	72945.777	4.124	1868996.645	4.138	B-	1779.692	3.483	250	078310.529	
	54	152	98	250	Cf	-a	71166.085	2.209	1869993.983	2.234	B-	-2100#	100#	250	076399.951	
	52	151	99	250	Es	-	73266#	100#	1867112#	100#	B-	-801#	101#	250	078654#	10
	50	150	100	250	Fm	-a	74067.510	11.956	1865527.852	11.961	B-	-4633#	301#	250	079514.759	1
	48	149	101	250	Md	-a	78700#	301#	1860113#	301#	B-	-2799#	363#	250	084488#	32
	46	148	102	250	No	-a	81499#	204#	1856531#	204#	B-	*		250	087493#	21
0	59	155	96	251	Cm	+	76641.333	22.818	1874154.765	22.821	B-	1420.000	20.000	251	082277.873	2
	57	154	97	251	Bk	+	75221.333	10.985	1874792.412	10.990	B-	1093.000	10.000	251	080753.440	1
	55	153	98	251	Cf	-a	74128.333	4.545	1875103.058	4.558	B-	-375.892	7.107	251	079580.056	
	53	152	99	251	Es	-a	74504.225	6.099	1873944.813	6.108	B-	-1474.438	6.828	251	079983.592	
	51	151	100	251	Fm	-a	75978.663	8.401	1871688.022	8.408	B-	-3123#	203#	251	081566.467	
	49	150	101	251	Md	-a	79101#	203#	1867783#	203#	B-	-3765#	272#	251	084919#	21
	47	149	102	251	No	-a	82866#	181#	1863236#	181#	B-	-5030#	349#	251	088960#	19
	45	148	103	251	Lr	x	87896#	298#	1857424#	298#	B-	*		251	094360#	32
0	60	156	96	252	Cm	x	79056#	298#	1879812#	298#	B-	528#	359#	252	084870#	32
	58	155	97	252	Bk	+	78528#	200#	1879557#	200#	B-	2500#	200#	252	084303#	21
	56	154	98	252	Cf	-a	76028.139	5.095	1881274.575	5.106	B-	-1260.000	50.000	252	081619.582	
	54	153	99	252	Es	-	77288.139	50.259	1879232.222	50.260	B-	477.090	50.521	252	082972.247	5
	52	152	100	252	Fm	-a	76811.050	5.798	1878926.958	5.808	B-	-3884#	196#	252	082460.071	
	50	151	101	252	Md	x	80695#	196#	1874260#	196#	B-	-2176#	196#	252	086630#	21
	48	150	102	252	No	-a	82871.198	12.991	1871302.103	12.995	B-	-5928#	298#	252	088965.909	1

	46	149	103	252	Lr	x	88799#	298#	1864592#	298#	B-	*		252	095330#	32
0	59	156	97	253	Bk	-a	80929#	359#	1885228#	359#	B-	1633#	359#	253	086880#	38
	57	155	98	253	Cf	-a	79295.083		6.2091886078.954	6.218	B-	287.661	6.412	253	085126.791	
	55	154	99	253	Es	-a	79007.422		3.1431885584.262	3.161	B-	-333.741	4.304	253	084817.974	
	53	153	100	253	Fm	-a	79341.163		4.9391884468.167	4.951	B-	-1960#	205#	253	085176.259	
	51	152	101	253	Md	x	81301#	205#	1881726#	205#	B-	-3138#	320#	253	087280#	22
	49	151	102	253	No	-a	84439#	246#	1877806#	246#	B-	-4294#	335#	253	090649#	26
	47	150	103	253	Lr	-a	88732#	227#	1872730#	227#	B-	-5049#	507#	253	095258#	24
	45	149	104	253	Db	-a	93782#	453#	1866898#	453#	B-	*		253	100679#	48
0	60	157	97	254	Bk	x	84393#	298#	1889834#	298#	B-	3059#	298#	254	090600#	32
	58	156	98	254	Cf	-a	81334.503		12.3191892110.857	12.324	B-	-651.886	12.764	254	087316.198	1
	56	155	99	254	Es	-a	81986.388		4.3881890676.618	4.402	B-	1088.200	3.202	254	088016.026	
	54	154	100	254	Fm	-a	80898.188		3.0011890982.465	3.021	B-	-2680#	100#	254	086847.795	
	52	153	101	254	Md	-	83578#	100#	1887520#	100#	B-	-1140#	102#	254	089725#	10
	50	152	102	254	No	-a	84718.198		17.6601885597.748	17.663	B-	-5252#	337#	254	090948.746	1
	48	151	103	254	Lr	-a	89971#	336#	1879563#	336#	B-	-3334#	441#	254	096587#	36
	46	150	104	254	Db	-a	93304#	286#	1875447#	286#	B-	*		254	100166#	30
0	59	157	98	255	Cf	+	84803#	200#	1896714#	200#	B-	720#	200#	255	091039#	21
	57	156	99	255	Es	-a	84082.584		11.0661896651.745	11.072	B-	289.620	10.247	255	090266.386	1
	55	155	100	255	Fm	-a	83792.964		4.8851896159.012	4.897	B-	-1043.022	8.137	255	089955.466	
	53	154	101	255	Md	-a	84835.986		7.0491894333.637	7.058	B-	-2009.468	11.342	255	091075.196	
	51	153	102	255	No	-a	86845.454		11.8361891541.815	11.841	B-	-3295#	207#	255	093232.449	1
	49	152	103	255	Lr	-a	90140#	206#	1887465#	206#	B-	-4399#	292#	255	096769#	22
	47	151	104	255	Db	-a	94539#	207#	1882284#	207#	B-	-5502#	471#	255	101492#	22
	45	150	105	255	Jl	-a	100041#	423#	1876000#	423#	B-	*		255	107398#	45
0	60	158	98	256	Cf	x	87039#	298#	1902549#	298#	B-	-141#	314#	256	093440#	32
	58	157	99	256	Es	+	87180#	100#	1901626#	100#	B-	1700#	100#	256	093592#	10
	56	156	100	256	Fm	-a	85479.952		7.1951902543.347	7.203	B-	-2129.614	52.820	256	091766.522	
	54	155	101	256	Md	-a	87609.566		52.8221899631.379	52.823	B-	-207.836	53.351	256	094052.757	5
	52	154	102	256	No	-a	87817.402		7.9591898641.190	7.966	B-	-4180#	220#	256	094275.879	
	50	153	103	256	Lr	-a	91997#	220#	1893679#	220#	B-	-2251#	222#	256	098763#	23
	48	152	104	256	Db	-a	94248.151		26.7341890645.734	26.736	B-	-6456#	360#	256	101179.573	2
	46	151	105	256	Jl	-a	100704#	359#	1883407#	359#	B-	*		256	108110#	38
0	59	158	99	257	Es	-a	89403#	411#	1907474#	411#	B-	820#	411#	257	095979#	44
	57	157	100	257	Fm	-a	88583.794		6.3681907510.827	6.377	B-	-406.139	6.642	257	095098.635	
	55	156	101	257	Md	-a	88989.933		3.2981906322.335	3.316	B-	-1227.835	30.793	257	095534.643	
	53	155	102	257	No	-a	90217.768		30.8731904312.147	30.874	B-	-2564#	210#	257	096852.778	3
	51	154	103	257	Lr	-a	92782#	207#	1900965#	207#	B-	-3229#	337#	257	099606#	22
	49	153	104	257	Db	-a	96011#	265#	1896954#	265#	B-	-4459#	353#	257	103072#	28
	47	152	105	257	Jl	-a	100469#	233#	1891713#	233#	B-	*		257	107858#	25
0	58	158	100	258	Fm	-a	90419#	200#	1913747#	200#	B-	-1263#	200#	258	097069#	21
	56	157	101	258	Md	-a	91682.582		4.7651911701.009	4.778	B-	209#	200#	258	098425.321	
	54	156	102	258	No	-a	91473#	200#	1911128#	200#	B-	-3430#	224#	258	098200#	21
	52	155	103	258	Lr	-a	94903#	102#	1906916#	102#	B-	-1570#	225#	258	101883#	11

	50	154	104	258	Db	-a	96473#	201#	1904563#	201#	B-	-5468#	398#	258	103568#	21
	48	153	105	258	Jl	-a	101941#	344#	1898313#	344#	B-	-3458#	538#	258	109438#	36
	46	152	106	258	Rf	-a	105399#	414#	1894073#	414#	B-	*		258	113151#	44
0	59	159	100	259	Fm	-a	93697#	283#	1918540#	283#	B-	80#	346#	259	100588#	30
	57	158	101	259	Md	-a	93617#	200#	1917837#	200#	B-	-486#	224#	259	100503#	21
	55	157	102	259	No	-a	94103#	100#	1916569#	100#	B-	-1832#	123#	259	101024#	10
	53	156	103	259	Lr	-a	95935#	71#	1913955#	71#	B-	-2457#	101#	259	102990#	7
	51	155	104	259	Db	-a	98392#	72#	1910716#	72#	B-	-3813#	296#	259	105628#	7
	49	154	105	259	Jl	-a	102205#	287#	1906121#	287#	B-	-4593#	355#	259	109721#	30
	47	153	106	259	Rf	-a	106798#	209#	1900745#	209#	B-	*		259	114652#	22
0	58	159	101	260	Md	-a	96545#	316#	1922981#	316#	B-	940#	374#	260	103645#	34
	56	158	102	260	No	-a	95605#	200#	1923139#	200#	B-	-2735#	231#	260	102636#	21
	54	157	103	260	Lr	-a	98340#	115#	1919621#	115#	B-	-802#	231#	260	105572#	12
	52	156	104	260	Db	-a	99142#	200#	1918037#	200#	B-	-4651#	306#	260	106434#	21
	50	155	105	260	Jl	-a	103794#	231#	1912603#	231#	B-	-2802#	235#	260	111427#	24
	48	154	106	260	Rf	-a	106595.916	40.5351	1909018.553	40.536	B-	-6863#	617#	260	114435.447	4
	46	153	107	260	Bh	-a	113459#	616#	1901373#	616#	B-	*		260	121803#	66
0	57	159	102	261	No	-a	98499#	300#	1928317#	300#	B-	-1116#	361#	261	105743#	32
	55	158	103	261	Lr	-a	99615#	200#	1926418#	200#	B-	-1687#	227#	261	106941#	21
	53	157	104	261	Db	-a	101302#	107#	1923949#	107#	B-	-3125#	255#	261	108752#	11
	51	156	105	261	Jl	-a	104426#	231#	1920042#	231#	B-	-3812#	359#	261	112106#	24
	49	155	106	261	Rf	-a	108238#	275#	1915447#	275#	B-	-5218#	364#	261	116199#	29
	47	154	107	261	Bh	-a	113456#	239#	1909447#	239#	B-	*		261	121800#	25
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	56	159	103	262	Lr	-a	102177#	300#	1931927#	300#	B-	-211#	412#	262	109692#	32
	54	158	104	262	Db	-a	102388#	283#	1930934#	283#	B-	-3945#	336#	262	109918#	30
	52	157	105	262	Jl	-a	106333#	182#	1926206#	182#	B-	-2165#	337#	262	114153#	19
	50	156	106	262	Rf	-a	108498#	283#	1923259#	283#	B-	-6084#	471#	262	116477#	30
	48	155	107	262	Bh	-a	114582#	376#	1916393#	376#	B-	*		262	123009#	40
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	55	159	104	263	Db	-a	104830#	185#	1936563#	185#	B-	-2364#	250#	263	112540#	19
	53	158	105	263	Jl	-a	107194#	168#	1933417#	168#	B-	-3014#	209#	263	115078#	18
	51	157	106	263	Rf	IT	110208#	124#	1929620#	124#	B-	-4502#	433#	263	118313#	13
	49	156	107	263	Bh	-a	114710#	415#	1924336#	415#	B-	-5183#	553#	263	123146#	44
	47	155	108	263	Hn	-a	119893#	366#	1918371#	366#	B-	*		263	128710#	39
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	54	159	105	264	Jl	-a	109425#	231#	1939257#	231#	B-	-1352#	365#	264	117473#	24
	52	158	106	264	Rf	-a	110777#	283#	1937123#	283#	B-	-5408#	396#	264	118924#	30
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	48	156	108	264	Hn	-a	119611.504	45.3381	1926723.550	45.339	B-	*		264	128408.258	4
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	53	159	106	265	Rf	-a	112772#	141#	1943199#	141#	B-	-3849#	404#	265	121066#	15
	51	158	107	265	Bh	-a	116621#	379#	1938568#	379#	B-	-4474#	484#	265	125198#	40
	49	157	108	265	Hn	IT	121096#	302#	1933311#	302#	B-	-6116#	555#	265	130001#	32

47	156	109	265	Mt	-a	127211#	466#	1926413#	466#	B-	*		265	136567#	50	
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	52	159	107	266	Bh	-a	118308#	351#	1944952#	351#	B-	-2825#	542#	266	127009#	37
	50	158	108	266	Hn	-a	121133#	413#	1941345#	413#	B-	-7357#	540#	266	130042#	44
	48	157	109	266	Mt	-a	128490#	349#	1933205#	349#	B-	*		266	137940#	37
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	51	159	108	267	Hn	-a	122746#	103#	1947803#	103#	B-	-5358#	586#	267	131774#	11
	49	158	109	267	Mt	-a	128105#	577#	1941662#	577#	B-	-5990#	692#	267	137526#	61
	47	157	110	267	Xa	-a	134094#	383#	1934890#	383#	B-	*		267	143956#	41
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	50	159	109	268	Mt	-a	129306#	315#	1948532#	315#	B-	-4391#	593#	268	138816#	33
	48	158	110	268	Xa	-a	133696#	502#	1943359#	502#	B-	*		268	143529#	53
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	49	159	110	269	Xa	-a	135200#	285#	1949927#	285#	B-	*		269	145144#	30
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