

**Supplement to the
Summary Documentation for the
ENDL92 Continuous-Energy
Neutron Data Library
(Release 1)**

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This supplement provides the full text for Appendix A in the Summary Documentation for the ENDL92 Continuous-Energy Neutron Data Library.

Appendix A

Expanded Information for Reaction Data in
the ENDL92 Neutron Data Library

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>ag47107 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	9.4500E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	60	667	953	9.4000E-02	8.5000E+00	-9.3000E-02
(n,n*2)	52	-1	130	738	964	1.2100E-01	8.5000E+00	-1.1986E-01
(n,n*3)	53	-1	197	809	975	3.2900E-01	8.5000E+00	-3.2500E-01
(n,n*4)	54	-1	256	880	986	4.2700E-01	8.5000E+00	-4.2300E-01
(n,n*5)	55	-1	309	951	997	7.7000E-01	8.5000E+00	-7.6280E-01
(n,n*6)	56	-1	352	1022	1008	9.3100E-01	8.5000E+00	-9.2200E-01
(n,2n)	16	2	391	0	1019	9.6209E+00	3.0000E+01	-9.5310E+00
(n,3n)	17	3	412	0	1973	1.7650E+01	3.0000E+01	-1.7460E+01
(n,gma)	102	0	418			1.0000E-10	3.0000E+01	7.2690E+00
==>ag47109 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	7.1000E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	62	597	1037	8.8815E-02	5.5000E+00	-8.7999E-02
(n,n*2)	52	-1	122	668	1048	1.3423E-01	5.5000E+00	-1.3299E-01
(n,n*3)	53	-1	178	739	1059	3.1388E-01	5.5000E+00	-3.1099E-01
(n,n*4)	54	-1	228	810	1070	4.1884E-01	5.5000E+00	-4.1499E-01
(n,n*5)	55	-1	271	881	1081	7.0850E-01	5.5000E+00	-7.0199E-01
(n,2n)	16	2	306	0	1092	9.2700E+00	3.0000E+01	-9.1818E+00
(n,3n)	17	3	329	0	2166	1.6620E+01	3.0000E+01	-1.6460E+01
(n,gma)	102	0	335			1.0000E-10	3.0000E+01	6.8057E+00
==>al13027 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.2500E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	201	1227	823	8.7500E-01	3.0000E+01	-8.4300E-01
(n,n*2)	52	-1	1126	1893	834	1.0510E+00	3.0000E+01	-1.0130E+00
(n,n*3)	53	-1	1982	2559	845	2.2930E+00	3.0000E+01	-2.2100E+00
(n,n*4)	54	-1	2514	3225	856	2.8341E+00	3.0000E+01	-2.7320E+00
(n,n*5)	55	-1	2944	3541	867	3.0914E+00	3.0000E+01	-2.9800E+00
(n,n*6)	56	-1	3334	3962	878	3.1132E+00	3.0000E+01	-3.0010E+00
(n,n*7)	57	-1	3720	4383	889	3.8155E+00	3.0000E+01	-3.6780E+00
(n,n*8)	58	-1	4025	4489	900	4.1040E+00	3.0000E+01	-3.9560E+00
(n,n*9)	59	-1	4308	4840	911	4.2070E+00	3.0000E+01	-4.0550E+00
(n,n*10)	60	-1	4581	5191	922	4.5740E+00	3.0000E+01	-4.4090E+00
(n,n*11)	61	-1	4825	5507	933	4.6770E+00	3.0000E+01	-4.5080E+00
(n,n*12)	62	-1	5063	5823	944	4.7512E+00	3.0000E+01	-4.5800E+00
(n,n*13)	63	-1	5294	6139	955	4.9910E+00	3.0000E+01	-4.8110E+00
(n,2n)	16	2	5508	0	966	1.3545E+01	3.0000E+01	-1.3057E+01
(n,n*)p	28	1	5541	0	1547	8.5800E+00	3.0000E+01	-8.2710E+00
(n,gma)	102	0	5626			1.0000E-10	3.0000E+01	7.7300E+00
==>am95241 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	122	0	1671	5.9500E+00	3.0000E+01	-5.9300E+00
(n,3n)	17	3	158	0	3474	1.2650E+01	3.0000E+01	-1.2600E+01
fission	18	19	172	0	4362	1.0000E-10	3.0000E+01	2.0000E+02

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>am95241 <== continued								
(n,gma)	102	0	2185			1.0000E-10	3.0000E+01	5.4318E+00
(n,pd)	115	0	4198			1.0000E-10	3.0000E+01	5.4800E+00
==>am95242 <==								
elastic	2	1				1.0000E-10	2.0000E+01	
(n,n*c)	91	1	1	0	1	1.0000E-01	2.0000E+01	0.0000E+00
(n,2n)	16	2	49	0	679	5.6000E+00	2.0000E+01	-5.5300E+00
(n,3n)	17	3	74	0	1254	1.1300E+01	2.0000E+01	-1.1250E+01
(n,4n)	37	4	86	0	1960	1.8250E+01	2.0000E+01	-1.8130E+01
fission	18	19	91	0	2334	1.0000E-10	2.0000E+01	1.9200E+02
(n,gma)	102	0	1461	1.0000E-10		2.0000E+01	6.3800E+00	
==>am95243 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	8.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	82	0	1284	6.4100E+00	3.0000E+01	-6.3738E+00
(n,3n)	17	3	115	0	2664	1.1950E+01	3.0000E+01	-1.1901E+01
(n,4n)	37	4	133	0	3633	1.8500E+01	3.0000E+01	-1.8424E+01
fission	18	19	140	0	4068	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	5009			1.0000E-10	3.0000E+01	5.3600E+00
==>ar18000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.5000E+00	3.0000E+01	0.0000E+00
(n,2n)	16	2	45	0	717	1.0500E+01	3.0000E+01	-9.8700E+00
(n,gma)	102	0	60			1.0000E-10	3.0000E+01	6.1000E+00
==>as33074 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.0100E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	47	0	1396	8.0910E+00	3.0000E+01	-7.9820E+00
(n,3n)	17	3	67	0	2757	1.9025E+01	3.0000E+01	-1.8771E+01
(n,gma)	102	0	74			1.0000E-10	3.0000E+01	1.0246E+01
==>as33075 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.0100E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	44	0	1396	1.0383E+01	3.0000E+01	-1.0246E+01
(n,3n)	17	3	60	0	3470	1.8480E+01	3.0000E+01	-1.8228E+01
(n,gma)	102	0	67			1.0000E-10	3.0000E+01	7.3280E+00
==>b5010 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	22	562	612	1.0500E+00	3.0000E+01	-7.1700E-01
(n,n*2)	52	-1	72	668	623	2.2500E+00	3.0000E+01	-1.7400E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>b5010 <== continued								
(n,n*3)	53	-1	110	774	634	2.5000E+00	3.0000E+01	-2.1540E+00
(n,n*4)	54	-1	145	880	645	4.0000E+00	3.0000E+01	-3.5900E+00
(n,n*)d2a	35	1	171	0	656	6.7000E+00	3.0000E+01	-6.0200E+00
(n,2n)	16	2	188	0	1507	8.9800E+00	3.0000E+01	-8.1580E+00
(n,gma)	102	0	202			1.0000E-10	3.0000E+01	1.1450E+01
==>b5011 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	7.5000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	49	562	423	2.3370E+00	3.0000E+01	-2.1400E+00
(n,n*2)	52	-1	167	738	434	4.8690E+00	3.0000E+01	-4.4600E+00
(n,n*3)	53	-1	251	844	445	5.4910E+00	3.0000E+01	-5.0300E+00
(n,2n)	16	2	324	0	456	1.2510E+01	3.0000E+01	-1.1460E+01
(n,gma)	102	0	332			1.0000E-10	3.0000E+01	3.3700E+00
==>be4007 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
==>bi83209 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.2767E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	57	1402	1248	9.1000E-01	3.0000E+01	-8.9660E-01
(n,n*2)	52	-1	302	1508	1259	1.6200E+00	3.0000E+01	-1.6085E+00
(n,n*3)	53	-1	414	1614	1270	2.5800E+00	3.0000E+01	-2.5590E+00
(n,n*4)	54	-1	485	1720	1281	3.0200E+00	3.0000E+01	-3.0000E+00
(n,n*5)	55	-1	546	1826	1292	3.1400E+00	3.0000E+01	-3.1210E+00
(n,2n)	16	2	605	0	1303	7.5000E+00	3.0000E+01	-7.4600E+00
(n,3n)	17	3	643	0	2556	1.4430E+01	3.0000E+01	-1.4354E+01
(n,n*)a	22	1	657	0	3550	1.3900E+01	3.0000E+01	3.1440E+00
(n,gma)	102	0	673			1.0000E-10	3.0000E+01	4.6000E+00
==>bk97249 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	89	0	1462	6.2300E+00	3.0000E+01	-6.2000E+00
(n,3n)	17	3	129	0	2712	1.1830E+01	3.0000E+01	-1.1780E+01
(n,4n)	37	4	152	0	3756	1.7900E+01	3.0000E+01	-1.7800E+01
fission	18	19	165	0	4239	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	976			1.0000E-10	3.0000E+01	4.9700E+00
==>c6012 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*1)	51	-1	1	632	1	4.8024E+00	3.0000E+01	-4.4300E+00
(n,n*)3a	23	-1	89	0	12	7.9800E+00	3.0000E+01	-7.3600E+00
(n,n*2)	52	-1	141	843	2214	8.2930E+00	3.0000E+01	-7.6500E+00
(n,n*3)	53	-1	189	984	2225	1.0439E+01	3.0000E+01	-9.6300E+00
(n,n*4)	54	-1	225	1125	2236	1.0949E+01	3.0000E+01	-1.0100E+01
(n,n*5)	55	-1	258	1231	2247	1.1751E+01	3.0000E+01	-1.0840E+01

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>c6012 <== continued								
(n,n*6)	56	-1	285	1372	2258	1.2814E+01	3.0000E+01	-1.1820E+01
(n,gma)	102	0	307			1.0000E-10	3.0000E+01	4.9460E+00
==>c6013 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*1)	51	-1	1	632	1	3.3280E+00	3.0000E+01	-3.0880E+00
(n,n*2)	52	-1	94	738	12	3.9710E+00	3.0000E+01	-3.6840E+00
(n,n*3)	53	-1	159	844	23	4.1530E+00	3.0000E+01	-3.8540E+00
(n,2n)	16	2	221	0	34	8.1320E+00	3.0000E+01	-4.9460E+00
(n,gma)	102	0	235			1.0000E-10	3.0000E+01	8.1770E+00
==>ca20000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.1900E+00	3.0000E+01	0.0000E+00
(n,2n)	16	2	208	0	971	1.0282E+01	3.0000E+01	-1.0030E+01
(n,n*p)	28	1	233	0	1657	8.5500E+00	3.0000E+01	-8.3400E+00
(n,n*a)	22	1	265	0	2386	7.2200E+00	3.0000E+01	-7.0400E+00
(n,gma)	102	0	304			1.0000E-10	3.0000E+01	8.3600E+00
==>cd48000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.5000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	56	0	1073	8.7500E+00	3.0000E+01	-8.6200E+00
(n,3n)	17	3	80	0	2099	1.6350E+01	3.0000E+01	-1.6150E+01
(n,gma)	102	0	93			1.0000E-10	3.0000E+01	9.0400E+00
==>cf98249 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	78	0	1462	5.6200E+00	3.0000E+01	-5.5900E+00
(n,3n)	17	3	111	0	2908	1.1830E+01	3.0000E+01	-1.1780E+01
(n,4n)	37	4	131	0	3952	1.8670E+01	3.0000E+01	-1.8590E+01
fission	18	19	140	0	4381	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	4696			1.0000E-10	3.0000E+01	6.6200E+00
==>cf98250 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	80	0	1374	6.6400E+00	3.0000E+01	-6.6100E+00
(n,3n)	17	3	112	0	2691	1.2260E+01	3.0000E+01	-1.2210E+01
(n,4n)	37	4	131	0	3726	1.8670E+01	3.0000E+01	-1.8590E+01
fission	18	19	140	0	4155	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	716			1.0000E-10	3.0000E+01	5.1100E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>cf98251 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	83	0	1374	5.1300E+00	3.0000E+01	-5.1000E+00
(n,3n)	17	3	118	0	2965	1.1780E+01	3.0000E+01	-1.1730E+01
(n,4n)	37	4	137	0	4009	1.7390E+01	3.0000E+01	-1.7320E+01
fission	18	19	148	0	4498	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	695			1.0000E-10	3.0000E+01	6.1700E+00
==>cf98252 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	83	0	1374	5.1300E+00	3.0000E+01	-5.1000E+00
(n,3n)	17	3	118	0	2965	1.1780E+01	3.0000E+01	-1.1730E+01
(n,4n)	37	4	137	0	4009	1.7390E+01	3.0000E+01	-1.7320E+01
fission	18	19	148	0	4498	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	695			1.0000E-10	3.0000E+01	6.1700E+00
==>cl17000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	8.6000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	84	0	856	1.3010E+01	3.0000E+01	-1.2647E+01
(n,n*)p	28	1	105	0	1268	6.5600E+00	3.0000E+01	-6.3710E+00
(n,n*)a	22	1	142	0	2023	7.1900E+00	3.0000E+01	-6.9990E+00
(n,gma)	102	0	177			1.0000E-10	3.0000E+01	8.5790E+00
==>cm96242 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	67	0	1493	7.0000E+00	3.0000E+01	-6.9700E+00
(n,3n)	17	3	94	0	2839	1.3090E+01	3.0000E+01	-1.3030E+01
fission	18	19	107	0	3651	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	3250			1.0000E-10	3.0000E+01	5.7000E+00
==>cm96243 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	6.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	61	0	1464	5.7200E+00	3.0000E+01	-5.6900E+00
(n,3n)	17	3	86	0	2377	1.2720E+01	3.0000E+01	-1.2660E+01
(n,4n)	37	4	99	0	3345	1.8820E+01	3.0000E+01	-1.8740E+01
fission	18	19	105	0	3833	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	1206			1.0000E-10	3.0000E+01	6.8000E+00
==>cm96244 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	76	0	1493	6.8300E+00	3.0000E+01	-6.8000E+00
(n,3n)	17	3	106	0	2888	1.2550E+01	3.0000E+01	-1.2490E+01

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>cm96244 <== continued								
(n,4n)	37	4	121	0	3782	1.9550E+01	3.0000E+01	-1.9470E+01
fission	18	19	127	0	4066	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	4327			1.0000E-10	3.0000E+01	5.5200E+00
==>cm96245 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	6.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	70	0	1464	5.6000E+00	3.0000E+01	-5.5200E+00
(n,3n)	17	3	96	0	2407	1.2400E+01	3.0000E+01	-1.2320E+01
(n,4n)	37	4	110	0	3670	1.8200E+01	3.0000E+01	-1.8020E+01
fission	18	19	116	0	4630	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	1682			1.0000E-10	3.0000E+01	6.4500E+00
==>cm96246 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.3000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	73	0	1465	6.4800E+00	3.0000E+01	-6.4500E+00
(n,3n)	17	3	104	0	2950	1.2020E+01	3.0000E+01	-1.1970E+01
(n,4n)	37	4	122	0	3958	1.8840E+01	3.0000E+01	-1.8760E+01
fission	18	19	129	0	4450	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	1507			1.0000E-10	3.0000E+01	5.1600E+00
==>cm96247 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	69	0	1465	5.1800E+00	3.0000E+01	-5.1500E+00
(n,3n)	17	3	104	0	3017	1.1650E+01	3.0000E+01	-1.1600E+01
(n,4n)	37	4	123	0	4142	1.7200E+01	3.0000E+01	-1.7100E+01
fission	18	19	132	0	4760	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	3390			1.0000E-10	3.0000E+01	6.2100E+00
==>cm96248 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	87	0	1462	6.2300E+00	3.0000E+01	-6.2000E+00
(n,3n)	17	3	125	0	2845	1.1410E+01	3.0000E+01	-1.1360E+01
(n,4n)	37	4	149	0	3976	1.7890E+01	3.0000E+01	-1.7810E+01
fission	18	19	159	0	4516	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	3516			1.0000E-10	3.0000E+01	4.7100E+00
==>co27059 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.1185E+00	3.0000E+01	0.0000E+00
(n,2n)	16	2	1301	0	7671	1.0631E+01	3.0000E+01	-1.0454E+01
(n,n*)p	28	1	1351	0	8339	9.0000E+00	3.0000E+01	-7.3640E+00
(n,n*c)	91	1	1407	0	9533	1.6750E+01	3.0000E+01	-1.5183E+01
(n,n*)t	33	1	1432	0	9877	1.9000E+01	3.0000E+01	-1.6573E+01

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>co27059 <== continued								
(n,n*)a	22	1	1443	0	10170	1.0500E+01	3.0000E+01	-6.9420E+00
(n,gma)	102	0	1494			1.0000E-10	3.0000E+01	7.4900E+00
==>cr24000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.2000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	40	1402	1086	5.7700E-01	3.2050E+00	-5.6200E-01
(n,n*2)	52	-1	134	1473	1097	8.0600E-01	3.2050E+00	-7.9000E-01
(n,n*3)	53	-1	204	1544	1108	1.0150E+00	3.2050E+00	-9.9500E-01
(n,n*4)	54	-1	256	1615	1119	1.4500E+00	3.2050E+00	-1.4200E+00
(n,n*5)	55	-1	284	1686	1130	2.0000E+00	3.2050E+00	-1.8300E+00
(n,n*6)	56	-1	304	1757	1141	2.4000E+00	3.2050E+00	-2.3500E+00
(n,n*7)	57	-1	319	1828	1152	2.7000E+00	3.2050E+00	-2.6480E+00
(n,n*8)	58	-1	328	1899	1163	3.0000E+00	3.2050E+00	-2.9400E+00
(n,2n)	16	2	334	0	1174	8.5000E+00	3.0000E+01	-7.9405E+00
(n,n*)p	28	1	358	0	2222	1.0710E+01	3.0000E+01	-1.0505E+01
(n,gma)	102	0	377			1.0000E-10	3.0000E+01	9.2500E+00
==>eu63000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	52	0	1054	8.3500E+00	3.0000E+01	-8.2700E+00
(n,3n)	17	3	75	0	2033	1.5000E+01	3.0000E+01	-1.4900E+01
(n,gma)	102	0	88			1.0000E-10	3.0000E+01	6.2600E+00
==>f9019 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	6.2585E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	143	702	2159	1.1584E-01	3.0000E+01	-1.1000E-01
(n,n*2)	52	-1	894	1158	2170	2.0746E-01	3.0000E+01	-1.9700E-01
(n,n*3)	53	-1	1581	1544	2181	1.4927E+00	3.0000E+01	-1.4170E+00
(n,n*4)	54	-1	1891	1895	2192	1.5354E+00	3.0000E+01	-1.4580E+00
(n,n*5)	55	-1	2196	2211	2203	1.6365E+00	3.0000E+01	-1.5540E+00
(n,n*6)	56	-1	2493	2562	2214	2.9276E+00	3.0000E+01	-2.7800E+00
(n,n*7)	57	-1	2748	2843	2225	4.1144E+00	3.0000E+01	-3.9070E+00
(n,n*8)	58	-1	2968	3089	2236	4.2103E+00	3.0000E+01	-3.9980E+00
(n,n*9)	59	-1	3186	3300	2247	4.2461E+00	3.0000E+01	-4.0320E+00
(n,n*10)	60	-1	3403	3441	2258	4.6104E+00	3.0000E+01	-4.3780E+00
(n,n*11)	61	-1	3608	3582	2269	4.7968E+00	3.0000E+01	-4.5550E+00
(n,n*12)	62	-1	3808	3723	2280	4.7989E+00	3.0000E+01	-4.5570E+00
(n,n*13)	63	-1	4007	3934	2291	4.8948E+00	3.0000E+01	-4.6480E+00
(n,n*14)	64	-1	4202	4110	2302	4.9316E+00	3.0000E+01	-4.6830E+00
(n,n*15)	65	-1	4394	4216	2313	5.3771E+00	3.0000E+01	-5.1060E+00
(n,n*16)	66	-1	4570	4322	2324	5.6235E+00	3.0000E+01	-5.3400E+00
(n,n*17)	67	-1	4739	4533	2335	5.7162E+00	3.0000E+01	-5.4280E+00
(n,n*18)	68	-1	4904	4709	2346	5.7541E+00	3.0000E+01	-5.4640E+00
(n,n*19)	69	-1	5067	4815	2357	5.7910E+00	3.0000E+01	-5.4990E+00
(n,n*20)	70	-1	5229	4921	2368	5.8341E+00	3.0000E+01	-5.5400E+00
(n,n*21)	71	-1	5389	5027	2379	5.9289E+00	3.0000E+01	-5.6300E+00
(n,2n)	16	2	5545	0	2390	1.0985E+01	3.0000E+01	-1.0431E+01

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
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==>f9019 <== continued								
(n,n*)p	28	1	5600	0	3410	8.4200E+00	3.0000E+01	-7.9930E+00
(n,n*)a	22	1	5688	0	4882	5.1500E+00	3.0000E+01	-4.8780E+00
(n,gma)	102	0	5871			1.0000E-10	3.0000E+01	6.6000E+00
==>fe26000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.7500E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	859	632	752	8.6026E-01	3.0000E+01	-8.4500E-01
(n,2n)	16	2	3015	0	763	1.1500E+01	3.0000E+01	-1.1200E+01
(n,gma)	102	0	3035			1.0000E-10	3.0000E+01	7.8450E+00
==>fiss120 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.5000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	55	0	2863	3.7000E+00	3.0000E+01	-3.6700E+00
(n,3n)	17	3	87	0	5805	9.7800E+00	3.0000E+01	-9.7000E+00
(n,gma)	102	0	103			1.0000E-10	3.0000E+01	4.8640E+00
==>fiss125 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.0000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	37	0	979	8.2000E+00	3.0000E+01	-8.0000E+00
(n,3n)	17	3	51	0	1971	1.5500E+01	3.0000E+01	-1.5350E+01
(n,gma)	102	0	61			1.0000E-10	3.0000E+01	8.0000E+00
==>ga31000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.0000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	53	0	1114	9.4400E+00	3.0000E+01	-9.3000E+00
(n,gma)	102	0	69			1.0000E-10	3.0000E+01	6.9700E+00
==>h1001 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,gma)	102	0	1			1.0000E-10	3.0000E+01	2.2247E+00
==>he2003 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,gma)	102	0	1			1.0000E-10	3.0000E+01	2.0578E+01
==>he2004 <==								
elastic	2	1				1.0000E-10	3.0000E+01	

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>hf72000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.3000E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	77	597	1021	9.3526E-02	3.0000E+01	-9.3000E-02
(n,n*2)	52	-1	157	703	1032	3.0873E-01	3.0000E+01	-3.0700E-01
(n,n*3)	53	-1	224	809	1043	6.3500E-01	3.0000E+01	-6.3000E-01
(n,n*4)	54	-1	284	915	1054	1.0600E+00	3.0000E+01	-1.0500E+00
(n,2n)	16	2	336	0	1065	7.1400E+00	3.0000E+01	-7.1000E+00
(n,3n)	17	3	366	0	2383	1.3970E+01	3.0000E+01	-1.3890E+01
(n,gma)	102	0	382			1.0000E-10	3.0000E+01	7.1800E+00
==>hg80000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.7000E-03	3.0000E+01	0.0000E+00
(n,2n)	16	2	693	0	1746	7.5000E+00	3.0000E+01	-7.4710E+00
(n,3n)	17	3	729	0	3225	1.4500E+01	3.0000E+01	-1.4420E+01
(n,4n)	37	4	751	0	4593	2.3000E+01	3.0000E+01	-2.2880E+01
(n,gma)	102	0	762			1.0000E-10	3.0000E+01	6.6700E+00
==>ho67165 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	9.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	54	0	769	8.0400E+00	3.0000E+01	-7.9900E+00
(n,3n)	17	3	76	0	2203	1.4800E+01	3.0000E+01	-1.4670E+01
(n,gma)	102	0	88			1.0000E-10	3.0000E+01	6.2400E+00
==>i53127 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.8500E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	37	0	2165	9.2130E+00	3.0000E+01	-9.1400E+00
(n,3n)	17	3	53	0	3080	1.6411E+01	3.0000E+01	-1.6282E+01
(n,gma)	102	0	60			1.0000E-10	3.0000E+01	6.8260E+00
==>in49000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.3925E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	65	0	1630	9.1160E+00	3.0000E+01	-9.0370E+00
(n,3n)	17	3	95	0	2998	1.6456E+01	3.0000E+01	-1.6312E+01
(n,4n)	37	4	110	0	4155	2.5982E+01	3.0000E+01	-2.5756E+01
(n,gma)	102	0	116			1.0000E-10	3.0000E+01	6.7830E+00
==>k19000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.0100E+00	3.0000E+01	0.0000E+00
(n,2n)	16	2	222	0	883	1.3410E+01	3.0000E+01	-1.3075E+01
(n,n*)p	28	1	243	0	1316	6.6000E+00	3.0000E+01	-6.3800E+00
(n,n*)a	22	1	289	0	2005	7.6000E+00	3.0000E+01	-7.2170E+00
(n,gma)	102	0	331			1.0000E-10	3.0000E+01	7.8000E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>li3006 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*1)	51	-1	1	527	1	4.1605E+00	3.0000E+01	-3.5600E+00
(n,n*c)	91	1	129	633	12	1.8000E+00	3.0000E+01	-1.4600E+00
(n,n*2)	52	-1	273	1054	947	2.6000E+00	3.0000E+01	-2.1800E+00
(n,2n)	16	2	412	0	958	4.3180E+00	3.0000E+01	-3.6980E+00
(n,n*)d	32	1	508	1300	1497	3.0000E+00	3.0000E+01	-1.4600E+00
(n,gma)	102	0	644			1.0000E-10	3.0000E+01	7.2600E+00
==>li3007 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*1)	51	-1	1	597	1	5.4700E-01	3.0000E+01	-4.7740E-01
(n,2n)	16	2	46	0	12	8.3100E+00	3.0000E+01	-7.2600E+00
(n,n*)t	33	1	63	738	2639	2.8260E+00	3.0000E+01	-2.4700E+00
(n,gma)	102	0	95			1.0000E-10	3.0000E+01	2.0300E+00
==>mg12000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.0000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	58	667	1025	1.4300E+00	3.0000E+01	-1.3700E+00
(n,n*2)	52	-1	164	773	1036	1.6768E+00	6.0000E+00	-1.6100E+00
(n,n*3)	53	-1	236	844	1047	1.9059E+00	6.5000E+00	-1.8300E+00
(n,2n)	16	2	299	0	1058	7.6279E+00	3.0000E+01	-7.3240E+00
(n,gma)	102	0	316			1.0000E-10	3.0000E+01	9.0920E+00
==>mn25055 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.5000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	69	0	1168	1.0420E+01	3.0000E+01	-1.0230E+01
(n,n*)p	28	1	84	0	1963	8.5000E+00	3.0000E+01	-8.0680E+00
(n,gma)	102	0	102			1.0000E-10	3.0000E+01	7.2700E+00
==>mo42000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.5000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	62	0	1027	8.0000E+00	3.0000E+01	-7.8000E+00
(n,3n)	17	3	93	0	2195	1.5000E+01	3.0000E+01	-1.4800E+01
(n,gma)	102	0	110			1.0000E-10	3.0000E+01	8.7500E+00
==>n7014 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*1)	51	-1	1	1332	1	2.4796E+00	3.0000E+01	-2.3130E+00
(n,n*2)	52	-1	390	1438	12	4.2292E+00	3.0000E+01	-3.9450E+00
(n,n*3)	53	-1	625	1544	23	5.2669E+00	3.0000E+01	-4.9130E+00
(n,n*4)	54	-1	822	1650	34	5.4738E+00	3.0000E+01	-5.1060E+00
(n,n*5)	55	-1	1012	1756	45	6.1009E+00	3.0000E+01	-5.6910E+00
(n,n*6)	56	-1	1175	1862	56	6.2542E+00	3.0000E+01	-5.8340E+00
(n,n*7)	57	-1	1331	1968	67	6.6445E+00	3.0000E+01	-6.1980E+00
(n,n*8)	58	-1	1472	2074	78	6.9082E+00	3.0000E+01	-6.4440E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>n7014 <== continued								
(n,n*9)	59	-1	1606	2180	89	7.5342E+00	3.0000E+01	-7.0280E+00
(n,n*10)	60	-1	1716	2286	100	8.5398E+00	3.0000E+01	-7.9660E+00
(n,2n)	16	2	1792	0	111	1.1310E+01	3.0000E+01	-1.0550E+01
(n,n*)p	28	1	1827	0	562	8.0940E+00	3.0000E+01	-7.5500E+00
(n,gma)	102	0	1913			1.0000E-10	3.0000E+01	1.0830E+01
==>n7015 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	8.9790E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	89	4062	2311	5.6244E+00	3.0000E+01	-5.2700E+00
(n,n*2)	52	-1	269	4623	2322	5.6553E+00	3.0000E+01	-5.2990E+00
(n,n*3)	53	-1	447	5184	2333	6.7493E+00	3.0000E+01	-6.3240E+00
(n,n*4)	54	-1	593	5745	2344	7.6361E+00	3.0000E+01	-7.1550E+00
(n,n*5)	55	-1	715	6236	2355	7.7920E+00	3.0000E+01	-7.3010E+00
(n,n*6)	56	-1	833	6762	2366	8.0750E+00	3.0000E+01	-7.5660E+00
(n,n*7)	57	-1	943	7253	2377	8.8720E+00	3.0000E+01	-8.3130E+00
(n,2n)	16	2	1034	0	2388	1.1563E+01	3.0000E+01	-1.0834E+01
(n,n*)p	28	1	1083	0	3849	1.0893E+01	3.0000E+01	-1.0207E+01
(n,n*)a	22	1	1142	0	4643	1.1730E+01	3.0000E+01	-1.0991E+01
(n,gma)	102	0	1189	1.9500E+01		3.0000E+01	0.0000E+00	
==>na11023 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.1710E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	509	387	967	4.5850E-01	3.0000E+01	-4.3920E-01
(n,2n)	16	2	1415	0	978	1.3000E+01	3.0000E+01	-1.2434E+01
(n,n*)p	28	1	1439	0	1372	9.2500E+00	3.0000E+01	-8.7940E+00
(n,n*)a	22	1	1491	0	2238	1.1000E+01	3.0000E+01	-1.0498E+01
(n,gma)	102	0	1524			1.0000E-10	3.0000E+01	6.9700E+00
==>nb41093 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.5495E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	51	1157	1216	2.9315E-02	6.0000E+00	-2.9000E-02
(n,n*2)	52	-1	140	1228	1227	7.4803E-01	6.0000E+00	-7.4000E-01
(n,n*3)	53	-1	202	1299	1238	8.1879E-01	6.0000E+00	-8.1000E-01
(n,n*4)	54	-1	260	1370	1249	9.6941E-01	6.0000E+00	-9.5900E-01
(n,n*5)	55	-1	314	1441	1260	1.0816E+00	6.0000E+00	-1.0700E+00
(n,n*6)	56	-1	366	1512	1271	1.3293E+00	6.0000E+00	-1.3150E+00
(n,n*7)	57	-1	414	1583	1282	1.5046E+00	6.0000E+00	-1.4884E+00
(n,n*8)	58	-1	459	1654	1293	1.6922E+00	6.0000E+00	-1.6740E+00
(n,n*9)	59	-1	502	1725	1304	1.9681E+00	6.0000E+00	-1.9470E+00
(n,n*10)	60	-1	537	1796	1315	2.1824E+00	6.0000E+00	-2.1590E+00
(n,n*11)	61	-1	567	1867	1326	2.3604E+00	6.0000E+00	-2.3350E+00
(n,n*12)	62	-1	591	1938	1337	2.5495E+00	6.0000E+00	-2.5190E+00
(n,2n)	16	2	612	0	1348	8.9218E+00	3.0000E+01	-8.8260E+00
(n,3n)	17	3	637	0	2416	1.6900E+01	3.0000E+01	-1.6718E+01
(n,gma)	102	0	646			1.0000E-10	3.0000E+01	7.2300E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>ne10020 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.0000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	832	702	355	1.7164E+00	3.0000E+01	-1.6340E+00
(n,n*2)	52	-1	1514	1368	366	4.6030E+00	3.0000E+01	-4.2470E+00
(n,2n)	16	2	1590	0	377	1.7709E+01	3.0000E+01	-1.6866E+01
(n,n*)p	28	1	1596	0	457	1.3486E+01	3.0000E+01	-1.2844E+01
(n,n*)a	22	1	1606	0	568	5.0000E+00	3.0000E+01	-4.7310E+00
(n,gma)	102	0	1627			1.0000E-10	3.0000E+01	6.7620E+00
==>ni28000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.7630E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	146	2137	951	1.1921E+00	3.0000E+01	-1.1720E+00
(n,n*2)	52	-1	887	2348	962	1.3559E+00	3.0000E+01	-1.3330E+00
(n,n*3)	53	-1	1550	2559	973	1.4790E+00	3.0000E+01	-1.4540E+00
(n,n*4)	54	-1	2161	2770	984	2.1951E+00	3.0000E+01	-2.1580E+00
(n,n*5)	55	-1	2549	2876	995	2.3253E+00	3.0000E+01	-2.2860E+00
(n,n*6)	56	-1	2907	2982	1006	2.5013E+00	3.0000E+01	-2.4590E+00
(n,n*7)	57	-1	3228	3088	1017	2.5491E+00	3.0000E+01	-2.5060E+00
(n,n*8)	58	-1	3540	3194	1028	2.6701E+00	3.0000E+01	-2.6250E+00
(n,n*9)	59	-1	3832	3300	1039	2.8227E+00	3.0000E+01	-2.7750E+00
(n,gma)	102	0	80			1.0000E-10	3.0000E+01	8.5200E+00
(n,n*10)	60	-1	4092	3406	1050	3.0109E+00	3.0000E+01	-2.9600E+00
(n,n*11)	61	-1	4319	3512	1061	3.3262E+00	3.0000E+01	-3.2700E+00
(n,n*12)	62	-1	4508	3618	1072	3.6903E+00	3.0000E+01	-3.6280E+00
(n,2n)	16	2	4661	3724	1083	7.9540E+00	3.0000E+01	-7.8195E+00
(n,n*)p	28	1	4694	3830	2340	8.3190E+00	3.0000E+01	-8.1772E+00
(n,n*)a	22	1	4724	3936	3160	6.4100E+00	3.0000E+01	-6.2950E+00
(n,gma)	102	0	4765			1.0000E-10	3.0000E+01	8.6000E+00
==>ni28058 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.5000E+00	3.0000E+01	0.0000E+00
(n,2n)	16	2	49	0	760	1.2400E+01	3.0000E+01	-1.2180E+01
(n,n*)p	28	1	62	0	1578	8.3300E+00	3.0000E+01	-8.1800E+00
==>np93235 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	110	0	1102	7.0120E+00	3.0000E+01	-6.9830E+00
(n,3n)	17	3	143	0	1895	1.3170E+01	3.0000E+01	-1.3114E+01
fission	18	19	155	0	2962	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	817			1.0000E-10	3.0000E+01	5.6850E+00
==>np93236 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	71	0	1102	5.7100E+00	3.0000E+01	-5.6850E+00
(n,3n)	17	3	96	0	1980	1.2722E+01	3.0000E+01	-1.2668E+01

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
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==> np93236 <== continued								
fission	18	19	107	0	2677	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	288			1.0000E-10	3.0000E+01	6.6280E+00
==>np93237 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	120	0	976	6.5700E+00	3.0000E+01	-6.5370E+00
(n,3n)	17	3	158	0	1854	1.2400E+01	3.0000E+01	-1.2310E+01
fission	18	19	174	0	2666	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	2653			1.0000E-10	3.0000E+01	5.4800E+00
==>np93238 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.5000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	70	0	1102	5.5120E+00	3.0000E+01	-5.4880E+00
(n,3n)	17	3	96	0	1980	1.2167E+01	3.0000E+01	-1.2116E+01
fission	18	19	108	0	2792	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	275			1.0000E-10	3.0000E+01	6.2180E+00
==>o8016 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.2000E+01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	32	1262	320	6.4847E+00	3.0000E+01	-6.1000E+00
(n,n*2)	52	-1	136	1368	331	7.4414E+00	3.0000E+01	-7.0000E+00
(n,n*3)	53	-1	219	1474	342	9.4400E+00	3.0000E+01	-8.8800E+00
(n,n*4)	54	-1	273	1580	353	1.1800E+01	3.0000E+01	-1.1100E+01
(n,2n)	16	2	305	0	364	1.6658E+01	3.0000E+01	-1.5670E+01
(n,n*)p	28	1	318	0	427	1.4000E+01	3.0000E+01	-1.2120E+01
(n,n*)a	22	1	337	0	764	9.2500E+00	3.0000E+01	-7.1500E+00
(n,gma)	102	0	394			2.0170E+01	3.0000E+01	0.0000E+00
==>p15031 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.3100E+00	3.0000E+01	0.0000E+00
(n,2n)	16	2	69	0	710	1.2711E+01	3.0000E+01	-1.2306E+01
(n,n*)p	28	1	81	0	1167	7.5400E+00	3.0000E+01	-7.2960E+00
(n,gma)	102	0	99			1.0000E-10	3.0000E+01	7.9370E+00
==>pa91233 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.0000E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	120	1192	1087	1.8781E-02	3.0000E+00	-1.8700E-02
(n,n*2)	52	-1	234	1298	1098	5.7146E-02	3.0000E+00	-5.6900E-02
(n,n*3)	53	-1	335	1404	1109	7.1508E-02	3.0000E+00	-7.1200E-02
(n,n*4)	54	-1	431	1510	1120	8.7176E-02	3.0000E+00	-8.6800E-02
(n,n*5)	55	-1	522	1616	1131	1.0445E-01	2.0000E+00	-1.0400E-01
(n,2n)	16	2	599	0	1142	6.6844E+00	3.0000E+01	-6.6556E+00
(n,3n)	17	3	635	0	2054	1.2232E+01	3.0000E+01	-1.2179E+01
fission	18	19	653	0	2313	4.8000E-01	3.0000E+01	1.8910E+02

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>pa91233 <== continued								
(n,gma)	102	0	759			1.0000E-10	3.0000E+01	5.1970E+00
==>pb82000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.7200E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	5313	0	8278	6.7700E+00	3.0000E+01	-6.5900E+00
(n,3n)	17	3	5351	0	9693	1.4180E+01	3.0000E+01	-1.4111E+01
(n,gma)	102	0	5371			1.0000E-10	3.0000E+01	7.3500E+00
==>pt78000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.5000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	77	0	877	6.1014E+00	3.0000E+01	-6.0700E+00
(n,3n)	17	3	112	0	1634	1.4000E+01	3.0000E+01	-1.3900E+01
(n,gma)	102	0	128			1.0000E-10	3.0000E+01	7.7200E+00
==>pu94237 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	1017	1	4.0000E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	58	1473	743	4.8000E-02	3.0000E+01	-4.7700E-02
(n,n*2)	52	-1	130	1579	754	1.0650E-01	3.0000E+01	-1.0600E-01
(n,2n)	16	2	196	0	765	5.9000E+00	3.0000E+01	-5.8730E+00
(n,3n)	17	3	223	0	1759	1.3250E+01	3.0000E+01	-1.3215E+01
fission	18	19	236	0	2664	1.0000E-10	3.0000E+01	1.8600E+02
(n,gma)	102	0	517			1.0000E-10	3.0000E+01	6.9980E+00
==>pu94238 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	50	0	814	7.0500E+00	3.0000E+01	-7.0000E+00
(n,3n)	17	3	72	0	1527	1.2950E+01	3.0000E+01	-1.2860E+01
fission	18	19	85	0	2260	1.0000E-10	3.0000E+01	1.8600E+02
(n,gma)	102	0	2264			1.0000E-10	3.0000E+01	5.6600E+00
==>pu94239 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	1017	1	4.0000E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	89	1508	743	5.7241E-02	3.0000E+01	-5.7000E-02
(n,n*2)	52	-1	205	1614	754	7.6321E-02	3.0000E+01	-7.6000E-02
(n,n*3)	53	-1	318	1720	765	1.6469E-01	3.0000E+01	-1.6400E-01
(n,n*4)	54	-1	422	1826	776	2.8721E-01	3.0000E+01	-2.8600E-01
(n,n*5)	55	-1	517	1932	787	3.3240E-01	3.0000E+01	-3.3100E-01
(n,n*6)	56	-1	610	2038	798	3.9165E-01	3.0000E+01	-3.9000E-01
(n,2n)	16	2	700	0	809	5.6400E+00	3.0000E+01	-5.6100E+00
(n,3n)	17	3	747	0	1422	1.2563E+01	3.0000E+01	-1.2510E+01
(n,4n)	37	4	770	0	2393	1.8630E+01	3.0000E+01	-1.8550E+01
fission	18	19	779	0	2899	1.0000E-10	3.0000E+01	1.8600E+02
(n,gma)	102	0	7608			1.0000E-10	3.0000E+01	6.5300E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>pu94240 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	9.5000E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	51	1017	1213	4.5500E-02	3.0000E+01	-4.5000E-02
(n,n*2)	52	-1	135	1123	1224	1.4300E-01	2.6000E+00	-1.4200E-01
(n,n*3)	53	-1	175	1229	1235	3.0000E-01	2.6000E+00	-2.9600E-01
(n,n*4)	54	-1	208	1335	1246	6.0200E-01	2.6000E+00	-5.9900E-01
(n,n*5)	55	-1	233	1441	1257	9.0000E-01	2.6000E+00	-8.9000E-01
(n,2n)	16	2	250	0	1268	6.6000E+00	3.0000E+01	-6.5300E+00
(n,3n)	17	3	278	0	2150	1.2250E+01	3.0000E+01	-1.2190E+01
fission	18	19	295	0	2877	1.0000E-10	3.0000E+01	1.8600E+02
(n,gma)	102	0	16923			1.0000E-10	3.0000E+01	5.2400E+00
==>pu94241 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	54	0	834	5.3000E+00	3.0000E+01	-5.2400E+00
(n,3n)	17	3	80	0	1626	1.1850E+01	3.0000E+01	-1.1780E+01
(n,4n)	37	4	95	0	2450	1.7600E+01	3.0000E+01	-1.7430E+01
fission	18	19	103	0	2915	1.0000E-10	3.0000E+01	1.8600E+02
(n,gma)	102	0	308			1.0000E-10	3.0000E+01	6.3000E+00
==>pu94242 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	7.4000E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	54	702	1068	4.5000E-02	3.0000E+01	-4.4500E-02
(n,n*2)	52	-1	145	808	1079	1.5000E-01	5.4000E+00	-1.4900E-01
(n,n*3)	53	-1	192	914	1090	3.1000E-01	5.4000E+00	-3.0000E-01
(n,n*4)	54	-1	229	1020	1101	6.9000E-01	5.4000E+00	-6.8000E-01
(n,2n)	16	2	257	0	1112	6.3300E+00	3.0000E+01	-6.3000E+00
(n,3n)	17	3	285	0	2787	1.1590E+01	3.0000E+01	-1.1540E+01
(n,4n)	37	4	304	0	3981	1.8150E+01	3.0000E+01	-1.8070E+01
fission	18	19	310	0	4593	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	4599			1.0000E-10	3.0000E+01	5.0400E+00
==>pu94243 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	6.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	73	0	1599	5.0600E+00	3.0000E+01	-5.0392E+00
(n,3n)	17	3	109	0	3268	1.1380E+01	3.0000E+01	-1.1333E+01
(n,4n)	37	4	130	0	4423	1.6650E+01	3.0000E+01	-1.6581E+01
fission	18	19	141	0	5156	1.0000E-10	3.0000E+01	2.0000E+02
(n,gma)	102	0	888			1.0000E-10	3.0000E+01	6.0200E+00
==>re75185 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.2700E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	72	0	1411	7.8530E+00	3.0000E+01	-7.8100E+00
(n,3n)	17	3	97	0	3295	1.4550E+01	3.0000E+01	-1.4470E+01
(n,gma)	102	0	107			1.0000E-10	3.0000E+01	6.1780E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>re75187 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.3480E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	67	0	1314	7.3600E+00	3.0000E+01	-7.3200E+00
(n,3n)	17	3	92	0	3169	1.3640E+01	3.0000E+01	-1.3560E+01
(n,gma)	102	0	102			1.0000E-10	3.0000E+01	5.8730E+00
==>s16032 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.3100E+00	3.0000E+01	0.0000E+00
(n,2n)	16	2	69	0	850	1.5560E+01	3.0000E+01	-1.5043E+01
(n,n*)p	28	1	82	0	918	9.1400E+00	3.0000E+01	-8.8650E+00
(n,gma)	102	0	101			1.0000E-10	3.0000E+01	8.6420E+00
==>sb51000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	6.2000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	44	0	1680	9.0396E+00	3.0000E+01	-8.9660E+00
(n,3n)	17	3	67	0	2952	1.5902E+01	3.0000E+01	-1.5772E+01
(n,4n)	37	4	83	0	4157	2.5218E+01	3.0000E+01	-2.5011E+01
(n,gma)	102	0	90			1.0000E-10	3.0000E+01	6.6610E+00
==>si14000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.1030E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	601	877	687	1.3187E+00	4.0200E+00	-1.2730E+00
(n,n*2)	52	-1	772	948	698	1.8430E+00	3.0000E+01	-1.7787E+00
(n,2n)	16	2	1392	0	709	8.7887E+00	3.0000E+01	-8.4740E+00
(n,n*)p	28	1	1583	0	1257	1.2000E+01	3.0000E+01	-1.1586E+01
(n,gma)	102	0	1641			1.0000E-10	3.0000E+01	8.4740E+00
==>sn50000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	7.5000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	32	0	631	9.5000E+00	3.0000E+01	-9.3000E+00
(n,3n)	17	3	54	0	1915	1.5127E+01	3.0000E+01	-1.5000E+01
(n,gma)	102	0	66			1.0000E-10	3.0000E+01	9.3500E+00
==>t1003 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,2n)	16	2	1	457	1	8.3600E+00	3.0000E+01	-6.2600E+00
==>ta73181 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.2000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	64	667	1284	1.3686E-01	1.0000E+01	-1.3610E-01
(n,n*2)	52	-1	138	773	1295	1.5950E-01	1.0000E+01	-1.5860E-01
(n,n*3)	53	-1	209	879	1306	3.0320E-01	1.0000E+01	-3.0150E-01

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==> ta73181 <== continued								
(n,n*4)	54	-1	275	985	1317	3.3940E-01	1.0000E+01	-3.3750E-01
(n,n*5)	55	-1	340	1091	1328	4.8500E-01	1.0000E+01	-4.8220E-01
(n,n*6)	56	-1	402	1197	1339	4.9800E-01	1.0000E+01	-4.9500E-01
(n,n*7)	57	-1	463	1303	1350	6.2346E-01	1.0000E+01	-6.2000E-01
(n,n*8)	58	-1	519	1409	1361	7.2401E-01	1.0000E+01	-7.2000E-01
(n,n*9)	59	-1	573	1515	1372	9.3016E-01	1.0000E+01	-9.2500E-01
(n,2n)	16	2	620	0	1383	7.6758E+00	3.0000E+01	-7.6300E+00
(n,3n)	17	3	652	0	3282	1.4300E+01	3.0000E+01	-1.4220E+01
(n,gma)	102	0	668			1.0000E-10	3.0000E+01	6.0700E+00
==>th90231 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	62	0	1465	5.1500E+00	3.0000E+01	-5.1200E+00
(n,3n)	17	3	94	0	3017	1.1970E+01	3.0000E+01	-1.1910E+01
(n,4n)	37	4	113	0	4142	1.7230E+01	3.0000E+01	-1.7150E+01
fission	18	19	123	0	4760	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	312			1.0000E-10	3.0000E+01	6.4300E+00
==>th90232 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	98	0	1195	6.5000E+00	3.0000E+01	-6.3400E+00
(n,3n)	17	3	130	0	3111	1.1610E+01	3.0000E+01	-1.1560E+01
(n,4n)	37	4	148	0	3896	1.8500E+01	3.0000E+01	-1.8350E+01
fission	18	19	154	0	4358	1.0000E+00	3.0000E+01	1.7000E+02
(n,gma)	102	0	214			1.0000E-10	3.0000E+01	4.7900E+00
==>th90233 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	74	0	1596	4.8100E+00	3.0000E+01	-4.7800E+00
(n,3n)	17	3	115	0	3265	1.1270E+01	3.0000E+01	-1.1220E+01
(n,4n)	37	4	144	0	4420	1.6420E+01	3.0000E+01	-1.6340E+01
fission	18	19	159	0	5153	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	367			1.0000E-10	3.0000E+01	6.1800E+00
==>ti22000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.5000E-01	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	110	457	1059	1.0100E+00	3.0000E+01	-9.8700E-01
(n,2n)	16	2	181	0	1070	1.2000E+01	3.0000E+01	-1.1630E+01
(n,gma)	102	0	194			1.0000E-10	3.0000E+01	8.2400E+00
==>u92233 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.0000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	70	0	645	6.0000E+00	3.0000E+01	-5.9000E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>u92233 <== continued								
(n,3n)	17	3	102	0	1874	1.3500E+01	3.0000E+01	-1.3180E+01
fission	18	19	115	0	2968	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	2280			1.0000E-10	3.0000E+01	6.8400E+00
==>u92234 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.4000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	75	0	809	6.8700E+00	3.0000E+01	-6.8400E+00
(n,3n)	17	3	107	0	1969	1.2650E+01	3.0000E+01	-1.2590E+01
fission	18	19	126	0	2947	1.0000E-01	3.0000E+01	1.8000E+02
(n,gma)	102	0	194			1.0000E-10	3.0000E+01	5.3100E+00
==>u92235 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	90	0	673	5.2524E+00	3.0000E+01	-5.2300E+00
(n,3n)	17	3	128	0	1310	1.2500E+01	3.0000E+01	-1.2000E+01
(n,4n)	37	4	149	0	1875	1.7970E+01	3.0000E+01	-1.7890E+01
fission	18	19	159	0	2375	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	5895			1.0000E-10	3.0000E+01	6.5500E+00
==>u92236 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	72	0	797	6.5800E+00	3.0000E+01	-6.5500E+00
(n,3n)	17	3	102	0	1497	1.1910E+01	3.0000E+01	-1.1850E+01
fission	18	19	121	0	2294	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	434			1.0000E-10	3.0000E+01	5.1200E+00
==>u92237 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	92	0	804	5.1500E+00	3.0000E+01	-5.1200E+00
(n,3n)	17	3	128	0	1570	1.1720E+01	3.0000E+01	-1.1670E+01
fission	18	19	144	0	2343	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	356			1.0000E-10	3.0000E+01	6.1400E+00
==>u92238 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.9000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	63	982	743	4.5191E-02	3.0000E+01	-4.5000E-02
(n,n*2)	52	-1	203	1333	754	1.4863E-01	3.0000E+01	-1.4800E-01
(n,n*3)	53	-1	332	1579	765	3.0931E-01	3.0000E+01	-3.0800E-01
(n,n*4)	54	-1	451	1685	776	6.8305E-01	4.0000E+00	-6.8000E-01
(n,n*5)	55	-1	515	1756	787	7.3510E-01	4.0000E+00	-7.3200E-01
(n,n*6)	56	-1	575	1862	798	8.3050E-01	4.0000E+00	-8.2700E-01
(n,n*7)	57	-1	631	1968	809	9.3394E-01	4.0000E+00	-9.3000E-01
(n,n*8)	58	-1	683	2074	820	9.7110E-01	4.0000E+00	-9.6700E-01

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>u92238 <== continued								
(n,n*9)	59	-1	733	2180	831	1.0042E+00	4.0000E+00	-1.0000E+00
(n,n*10)	60	-1	781	2286	842	1.0454E+00	4.0000E+00	-1.0410E+00
(n,n*11)	61	-1	828	2392	853	1.0645E+00	4.0000E+00	-1.0600E+00
(n,n*12)	62	-1	874	2498	864	1.1247E+00	4.0000E+00	-1.1200E+00
(n,n*13)	63	-1	917	2604	875	1.1649E+00	4.0000E+00	-1.1600E+00
(n,n*14)	64	-1	958	2710	886	1.2252E+00	4.0000E+00	-1.2200E+00
(n,n*15)	65	-1	997	2816	897	1.2754E+00	4.0000E+00	-1.2700E+00
(n,n*16)	66	-1	1035	2922	908	1.3055E+00	4.0000E+00	-1.3000E+00
(n,n*17)	67	-1	1071	3028	919	1.3667E+00	4.0000E+00	-1.3600E+00
(n,n*18)	68	-1	1105	3134	930	1.4160E+00	4.0000E+00	-1.4100E+00
(n,n*19)	69	-1	1136	3240	941	1.4431E+00	4.0000E+00	-1.4370E+00
(n,n*20)	70	-1	1166	3311	952	1.4762E+00	4.0000E+00	-1.4700E+00
(n,n*21)	71	-1	1195	3382	963	1.6319E+00	5.0000E+00	-1.6250E+00
(n,n*22)	72	-1	1222	3453	974	1.8829E+00	5.0000E+00	-1.8750E+00
(n,2n)	16	2	1242	0	985	6.0656E+00	3.0000E+01	-6.0400E+00
(n,3n)	17	3	1284	0	2347	1.1500E+01	3.0000E+01	-1.1450E+01
(n,4n)	37	4	1311	0	3370	1.8000E+01	3.0000E+01	-1.7820E+01
fission	18	19	1322	0	3954	4.5000E-01	3.0000E+01	1.8000E+02
(n,gma)	102	0	1437			1.0000E-10	3.0000E+01	4.8000E+00
==>u92239 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	5.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	96	0	655	4.8300E+00	3.0000E+01	-4.8000E+00
(n,3n)	17	3	141	0	1424	1.1000E+01	3.0000E+01	-1.0950E+01
(n,4n)	37	4	164	0	2305	1.6150E+01	3.0000E+01	-1.6070E+01
fission	18	19	176	0	3313	1.0000E-10	3.0000E+01	1.8000E+02
(n,gma)	102	0	383			1.0000E-10	3.0000E+01	5.9300E+00
==>u92240 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	56	0	804	5.9600E+00	3.0000E+01	-5.9300E+00
(n,3n)	17	3	79	0	1599	1.0800E+01	3.0000E+01	-1.0740E+01
(n,4n)	37	4	93	0	2534	1.7000E+01	3.0000E+01	-1.6880E+01
fission	18	19	101	0	3323	1.0000E+00	3.0000E+01	1.8000E+02
(n,gma)	102	0	134			1.0000E-10	3.0000E+01	6.0800E+00
==>v23051 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.4500E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	441	912	1832	3.2634E-01	2.0000E+01	-3.2000E-01
(n,n*2)	52	-1	3504	1018	1843	9.4739E-01	2.0000E+01	-9.2900E-01
(n,n*3)	53	-1	5026	1124	1854	1.6410E+00	2.0000E+01	-1.6090E+00
(n,n*4)	54	-1	6029	1230	1865	1.8490E+00	2.0000E+01	-1.8130E+00
(n,n*5)	55	-1	6926	1336	1876	2.4587E+00	2.0000E+01	-2.4110E+00
(n,n*6)	56	-1	7603	1442	1887	2.5974E+00	2.0000E+01	-2.5470E+00
(n,n*7)	57	-1	8241	1548	1898	2.7300E+00	2.0000E+01	-2.6770E+00
(n,n*8)	58	-1	8846	1654	1909	2.7524E+00	2.0000E+01	-2.6990E+00
(n,n*9)	59	-1	9444	1760	1920	3.1461E+00	2.0000E+01	-3.0850E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>v23051 <== continued								
(n,n*10)	60	-1	9954	1866	1931	3.2124E+00	2.0000E+01	-3.1500E+00
(n,n*11)	61	-1	10450	1972	1942	3.2583E+00	2.0000E+01	-3.1950E+00
(n,n*12)	62	-1	10934	2078	1953	3.2787E+00	2.0000E+01	-3.2150E+00
(n,n*13)	63	-1	11413	2184	1964	3.3286E+00	2.0000E+01	-3.2640E+00
(n,n*14)	64	-1	11880	2290	1975	3.3449E+00	2.0000E+01	-3.2800E+00
(n,n*15)	65	-1	12342	2396	1986	3.4388E+00	2.0000E+01	-3.3720E+00
(n,n*16)	66	-1	12782	2502	1997	3.4439E+00	2.0000E+01	-3.3770E+00
(n,n*17)	67	-1	13221	2608	2008	3.4449E+00	2.0000E+01	-3.3780E+00
(n,n*18)	68	-1	13659	2714	2019	3.4479E+00	2.0000E+01	-3.3810E+00
(n,n*19)	69	-1	14095	2820	2030	3.4500E+00	2.0000E+01	-3.3830E+00
(n,n*20)	70	-1	14530	2926	2041	3.4530E+00	2.0000E+01	-3.3860E+00
(n,n*21)	71	-1	14962	3032	2052	3.4632E+00	2.0000E+01	-3.3960E+00
(n,n*22)	72	-1	15391	3138	2063	3.5122E+00	2.0000E+01	-3.4440E+00
(n,n*23)	73	-1	15808	3244	2074	3.5132E+00	2.0000E+01	-3.4450E+00
(n,n*24)	74	-1	16224	3350	2085	3.5224E+00	2.0000E+01	-3.4540E+00
(n,2n)	16	2	16637	0	2096	1.1270E+01	3.0000E+01	-1.1051E+01
(n,n*)p	28	1	16665	0	2728	8.2150E+00	3.0000E+01	-8.0570E+00
(n,n*)a	22	1	16700	0	4001	1.0500E+01	3.0000E+01	-1.0294E+01
(n,gma)	102	0	16730			1.0000E-10	3.0000E+01	7.3110E+00
==>xe54000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	4.0000E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	39	0	1559	7.8300E+00	3.0000E+01	-7.7710E+00
(n,3n)	17	3	57	0	3080	1.5914E+01	3.0000E+01	-1.5795E+01
(n,gma)	102	0	66			1.0000E-10	3.0000E+01	7.8600E+00
==>xe54134 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	1.9000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	37	807	1397	8.5338E-01	1.1000E+01	-8.4700E-01
(n,n*2)	52	-1	78	913	1408	1.6252E+00	1.1000E+01	-1.6130E+00
(n,n*3)	53	-1	109	1019	1419	1.7440E+00	1.1000E+01	-1.7310E+00
(n,2n)	16	2	137	0	1430	8.6000E+00	3.0000E+01	-8.5340E+00
(n,3n)	17	3	156	0	2499	1.5100E+01	3.0000E+01	-1.4981E+01
(n,gma)	102	0	167			1.0000E-10	3.0000E+01	6.4530E+00
==>y39088 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.5000E-01	3.0000E+01	0.0000E+00
(n,2n)	16	2	63	0	1308	9.4700E+00	3.0000E+01	-9.3630E+00
(n,gma)	102	0	84			1.0000E-10	3.0000E+01	1.1469E+01
==>y39089 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	3.2500E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	30	842	1061	9.1952E-01	3.0000E+01	-9.0920E-01
(n,n*2)	52	-1	77	948	1072	1.5241E+00	3.0000E+01	-1.5070E+00
(n,n*3)	53	-1	120	1054	1083	1.7650E+00	3.0000E+01	-1.7445E+00

Reaction	MT	TYR	LSIG	LAND	LDLW	Emin	Emax	Q-value
==>y39089 <== continued								
(n,n*4)	54	-1	162	1160	1094	2.2492E+00	3.0000E+01	-2.2240E+00
(n,n*5)	55	-1	200	1266	1105	2.5961E+00	3.0000E+01	-2.5670E+00
(n,n*6)	56	-1	234	1372	1116	2.9218E+00	3.0000E+01	-2.8890E+00
(n,n*7)	57	-1	266	1478	1127	3.1392E+00	3.0000E+01	-3.1040E+00
(n,2n)	16	2	296	0	1138	1.1600E+01	3.0000E+01	-1.1469E+01
(n,gma)	102	0	312			1.0000E-10	3.0000E+01	6.8570E+00
==>zn30000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	9.4130E-02	3.0000E+01	0.0000E+00
(n,2n)	16	2	17503	0	695	1.1295E+01	3.0000E+01	-1.1124E+01
(n,3n)	17	3	17529	0	1163	1.9910E+01	3.0000E+01	-1.9610E+01
(n,n*p)	28	1	17543	0	1292	8.6633E+00	3.0000E+01	-8.5329E+00
(n,n*a)	22	1	17574	0	1592	4.4930E+00	3.0000E+01	-4.4253E+00
(n,n*3a)	23	1	17612	0	1954	1.1473E+01	3.0000E+01	-1.1300E+01
(n,gma)	102	0	17637	1.0000E-10		2.2000E+01	7.5272E+00	
==>zr40000 <==								
elastic	2	1				1.0000E-10	3.0000E+01	
(n,n*c)	91	1	1	0	1	2.0000E+00	3.0000E+01	0.0000E+00
(n,n*1)	51	-1	31	737	1039	9.3000E-01	2.0001E+00	-9.1980E-01
(n,n*2)	52	-1	59	808	1050	1.2300E+00	2.0001E+00	-1.2100E+00
(n,n*3)	53	-1	78	879	1061	1.3200E+00	2.0001E+00	-1.3000E+00
(n,n*4)	54	-1	95	950	1072	1.4000E+00	2.0001E+00	-1.3800E+00
(n,n*5)	55	-1	111	1021	1083	1.5000E+00	2.0001E+00	-1.4800E+00
(n,n*6)	56	-1	125	1092	1094	1.6800E+00	2.0001E+00	-1.6600E+00
(n,n*7)	57	-1	137	1163	1105	1.7700E+00	2.0001E+00	-1.7500E+00
(n,n*8)	58	-1	146	1234	1116	1.8800E+00	2.0001E+00	-1.8594E+00
(n,2n)	16	2	153	0	1127	7.2700E+00	3.0000E+01	-7.2000E+00
(n,3n)	17	3	175	0	1868	1.5110E+01	3.0000E+01	-1.4950E+01
(n,gma)	102	0	183			1.0000E-10	3.0000E+01	8.6800E+00