Appendix A
Atlas of Giant Dipole Resonances

Parameters of Photonuclear Reaction Cross Sections

As a part of the present project, an Atlas of Giant Dipole Resonances was produced by the Moscow group [7]. The Atlas consists of two parts:

- **Table** of parameters of giant dipole resonances observed in photonuclear reaction cross sections, and
- **Graphs** of photonuclear reaction cross sections from the international nuclear data library EXFOR.

For the user convenience, the Table is reproduced in the present Appendix. A reader interested in the Graphs is referred to the Web site of the CDFE, Moscow State University, *http* : *//depni.npi.msu.su/cdfe/*.

The Table is an updated (corrected and extended) version of the table *Parameters of the Giant Dipole Resonance* published in [22]. It includes parameters of the GDR observed in photonuclear reactions measured by bremsstrahlung, quasimonoenergetic, and tagged photons. These parameters were obtained directly, without any specific fitting procedure, from the cross sections for various photonuclear reactions, such as photoabsorption, neutron yield, total neutron production, single, double and triple neutron production, charged particle emission (proton, deuteron, triton, ^{3}He, alpha), and fission.

Table entries are organized by element, isotope, and reaction ordered by product from neutron to alpha. The Table contains information on the GDR parameters derived from the data for 82 elements (220 isotopes and natural compositions) with atomic numbers from 1 to 95. The entries for almost all the 600 photoneutron cross sections obtained with quasimonoenergetic photons [3] are also included. There are altogether 1317 entries.

Numerical data presented for the reaction cross section (peak energy and peak cross section, see notation table below) were obtained either directly from the relevant subentry (data set) of the EXFOR library, or estimated (together with the data for the peak width) using the graphs presented in the original papers (see reference and first author given in the table), or in the Photonuclear Data Abstract Sheets [1].

Numerical data for the integrated cross section and its first moment were obtained either by reading from the original papers (when available), or by deducing from the

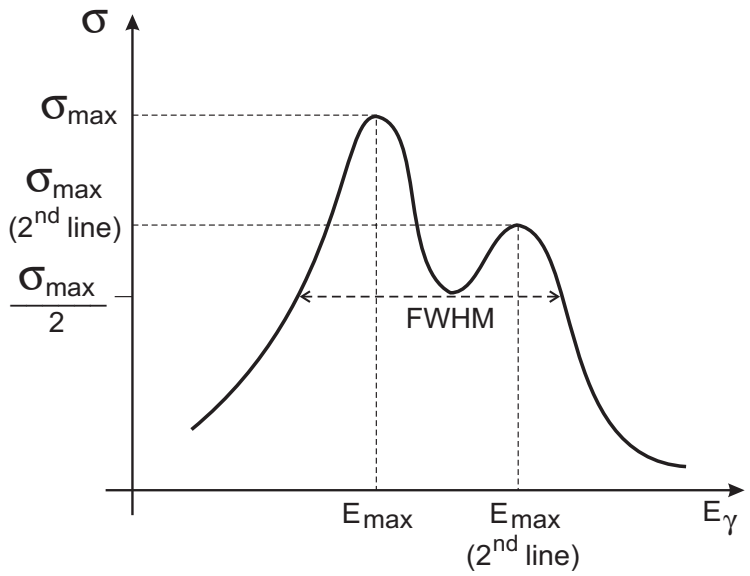

Figure A.1: *Schematical explanation of GDR parameters, describing experimental photonuclear reaction cross sections. Parameters were obtained directly from experimental curves, no fitting to Lorentzian shape was performed. Shown is the case with 2 peaks (peak energy and peak cross section of the second peak will appear at the* 2^{nd} *line of an entry in the table). This case also illustrates that the FWHM may be larger than the width of any of two Lorentzians that would describe the curve. In cases where the experimental curve refers to a reaction channel with high threshold or where the curve is truncated by lack of high energy data, the FWHM may be smaller than the width of the Lorentzian curve.*

EXFOR data sets, or by reading from the appropriate Table in Ref. [22]. Data sources were the international nuclear data library EXFOR containing experimental cross sections described in Sec. 3.2.2, and the photonuclear data collections 1976-1995 [22] and 1955-1982 [1].

Besides the usual notation for reactions and reaction products described in Chapter 2, the following notation is used in the Table (see explanatory figure).

EXFOR	EXFOR 8-digit entry&subentry number
Nucl	Target nucleus (symbol)
A	Target nucleus (mass number)
Reac	Reaction
E_{max}	Energy at cross section maximum (peak energy) in MeV
σ_{max}	Peak cross section in mb
FWHM	Full width at half maximum in MeV
E_{int}	Upper limit of integration in MeV
σ_{int}	Integrated cross section in MeV * mb
σ^1_{int}	First moment of the integrated cross section in mb
Reference	Original paper
Author	Name of the first author

If the cross section presents more than one peak, then the E_{max} column will have more than one line for the same entry.

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
	1-H	2	γ, abs	4.48	2.5	18.1	30.00	29.	3.6	Ann.Phys.27,79(1964)	E.G.FULLER
							140.00	40.	3.7		
L0052004	1-H	3	γ, xn	17.211	2.66	>15.	23.40	32.3		Phys.Rev.C24,849(1981)	D.D.FAUL
	1-H	3	γ, sn	17.21	1.7		23.40	22.	1.48	Phys.Rev.C24,849(1981)	D.D.FAUL
L0052002	1-H	3	γ, n	12.555	.96	>15.	23.40	11.7		Phys.Rev.C24,849(1981)	D.D.FAUL
L0052002				17.211	.9						
L0052002				21.373	.89						
L0052003	1-H	3	$\gamma, 2n$	16.43	.95	17.	23.40	10.2		Phys.Rev.C24,849(1981)	D.D.FAUL
L0052003				21.934	.8						
M0472002	1-H	3	γ, d	15.5	.78	13.	36.00	9.5	.4	Phys.Rev.C24,1791(1981)	D.M.SKOPIK
	1-H	3	γ, d	12.	.72	12.	33.00	12.	.78	Z.Physik,208,129(1968)	R.PFEIFER
L0052005	2-He	3	γ, xn	18.182	1.12	14.	25.80	14.1		Phys.Rev.C24,849(1981)	D.D.FAUL
	2-He	3	γ, xn	14.09	.97	14.	30.20	13.		Phys.Rev.C10,2221(1974)	B.L.BERMAN
L0052005	2-He	3	γ, sn	18.182	1.12	14.	25.80	14.1	.83	Phys.Rev.C24,849(1981)	D.D.FAUL
	2-He	3	γ, sn	14.09	.97	14.	30.20	13.	.77	Phys.Rev.C10,2221(1974)	B.L.BERMAN
L0052005	2-He	3	γ, n	18.182	1.12	14.	23.40	12.3		Phys.Rev.C24,849(1981)	D.D.FAUL
	2-He	3	γ, n	14.09	.97	14.	30.20	13.		Phys.Rev.C10,2221(1974)	B.L.BERMAN
L0018002	2-He	3	γ, n	14.092	.966	13.	30.00	13.	.77	Phys.Rev.L.24,1494(1970)	B.L.BERMAN
	2-He	3	γ, n	16.5	.96	15.	28.00	12.1	.68	Phys.Rev.144,B834(1966)	H.M.GERSTENBERG
M0479005	2-He	3	γ, np	17.	1.2	17.	120.00	43.6	1.42	Phys.Lett.11,137(1964)	A.N.GORBUNOV
	2-He	3	$\gamma, n2p$	19.5	.85	13.	30.00	13.4	.7	Nuov.Cim.A103,721(1990)	P.BELLI
							60.00	20.4	.9		
							100.00	23.8	1.		
							140.00	25.4	1.		
							170.00	26.1	1.		
M0479002	2-He	3	γ, p	11.	1.07	15.	117.00	26.1	1.3	Phys.Lett.11,137(1964)	A.N.GORBUNOV
	2-He	3	γ, d	12.	1.05	19.				Phys.Lett.46B,369(1973)	G.TICCIONI
	2-He	3	γ, d	12.5	1.06	18.	40.00	16.5	1.07	Phys.Rev.138,B372(1965)	J.R.STEWART
	2-He	3	γ, d	12.0	1.0	19.	170.00	26.5		ZHETF,47,30(1964)	A.T.VARFOLOMEEV
	2-He	3	γ, pd	10.5	.8	15.	30.00	12.4	.9	Nuov.Cim.A103,721(1990)	P.BELLI
							60.00	16.7			
							100.00	18.8			
							140.00	19.9			
							170.00	20.5			
M0040002	2-He	4	γ, abs	22.7	3.42	>20.	143.00	102.	2.9	Yad.Fiz.31,1400(1980)	YU.M.ARKATOV
M0019002	2-He	4	γ, abs	26.2	3.45	>20.	143.00	100.	2.5	Yad.Konst.4,55(1979)	YU.M.ARKATOV
	2-He	4	γ, xn	33.31	1.2	20.	47.30	23.5		Phys.Rev.C22,2273(1980)	B.L.BERMAN
L0023002	2-He	4	γ, xn	24.553	1.034	8.	31.40	7.9		Phys.Rev.C4,723(1971)	B.L.BERMAN
L0023002				27.443	1.021						
	2-He	4	γ, sn	33.31	1.2	20.	47.30	23.5	.73	Phys.Rev.C22,2273(1980)	B.L.BERMAN
L0023002	2-He	4	γ, sn	24.553	1.034	8.	31.40	7.9	.3	Phys.Rev.C4,723(1971)	B.L.BERMAN
L0023002				27.443	1.021						
L0051002	2-He	4	γ, n	33.311	1.2	20.	47.30	23.1		Phys.Rev.C22,2273(1980)	B.L.BERMAN
L0051002				24.302	1.09						
	2-He	4	γ, n	28.	1.45	16.				Nuov.Cim.38A,145(1977)	F.BALESTRA
L0023002	2-He	4	γ, n	24.553	1.034	8.	31.40	7.9		Phys.Rev.C4,723(1971)	B.L.BERMAN
L0023002				27.443	1.09						
M0489002	2-He	4	γ, n	24.5	1.96	14.	170.00	42.	1.1	Phys.Lett.27B,436(1968)	A.N.GORBUNOV
	2-He	4	γ, p	25.	1.7	15.				Nuov.Cim.38A,145(1977)	F.BALESTRA
M0489003	2-He	4	γ, p	26.5	1.86	14.	170.00	40.	1.1	Phys.Lett.27B,436(1968)	A.N.GORBUNOV
M0012002	2-He	4	γ, p	26.5	1.66	>15.	115.00	41.	1.2	Ukr.Fiz.Zh.23,1818(1978)	YU.M.ARKATOV
M0011002	2-He	4	γ, d	32.	.00511	>10.	65.00	.07	.002	Ukr.Fiz.Zh.23,919(1978)	YU.M.ARKATOV
M0034005	2-He	4	γ, d	32.2	.0052	>10.	65.00	.07	.002	Yad.Fiz.31,297(1980)	YU.M.ARKATOV
M0140016	3-Li	6	γ, abs	23.5	4.58	11.5	50.00	68.	3.4	CDFE/Li2,86	V.V.VARLAMOV
M0140016				1.5	1.71						
M0140016				41.	1.11						
L0008002	3-Li	6	γ, xn	11.63	1.681	13.	32.00	28.2		Phys.Rev.L.15,727(1965)	B.L.BERMAN
L0008002				30.21	1.043						
M0107002	3-Li	6	γ, xn	13.5	1.79	23.	60.00	53.	2.7	Nucl.Phys.68,191(1965)	E.B.BAZHANOV
M0107002				29.8	1.6						
M0107002				38.6	1.2						
M0235002	3-Li	6	γ, xn	16.27	1.79	>13.	20.00	17.7	1.5	Nucl.Phys.A430,214(1984)	N.DYTLEWSKI
M0235002				11.81	1.72						
M0251002	3-Li	6	γ, xn	16.26	2.3	>15.	29.00	36.1	2.4	Nucl.Phys.69,241(1969)	E.HAYWARD
M0251002				13.52	2.17						
M0251002				26.53	4.1						
	3-Li	6	γ, sn	14.	2.6		96.00	130.	3.8	Nuov.Cim.42B,382(1966)	S.COSTA
				11.	2.25						
M0140002	3-Li	6	γ, xn	11.5	1.71	37.	50.00	5.3	2.7	CDFE/Li2,86	V.V.VARLAMOV
M0140002				15.5	1.71						
M0140002				27.5	1.55						
M0140002				39.	1.12						
L0008005	3-Li	6	γ, sn	11.63	1.681	11.	32.00	27.8	1.91	Phys.Rev.L.15,727(1965)	B.L.BERMAN
L0008005				16.21	1.48						
L0008005				30.21	.98						
L0008003	3-Li	6	γ, n	11.63	1.681	11.	32.00	27.4		Phys.Rev.L.15,727(1965)	B.L.BERMAN
L0008003				16.21	1.48						
L0008003				30.22	.917						
	3-Li	6	γ, n	12.	.6	10.	20.00	3.2		Nucl.Phys.68,191(1965)	E.B.BAZHANOV
M0252002	3-Li	6	γ, n	14.	2.55		96.00	130.	3.8	Nuov.Cim.B42,382(1966)	S.COSTA
M0140008	3-Li	6	γ, np	8.	.4	12.	35.00	4.3	.4	CDFE/Li2,86	V.V.VARLAMOV
M0140008				17.5	.26						
M0104003	3-Li	6	γ, p	6.73	33.14	2.	11.00	32.2	4.6	Izv.AN SSSR,28,60(1964)	A.KH.SHARDANOV
M0140009	3-Li	6	γ, pd	23.5	2.57	1.5	50.00	9.6	.3	CDFE/Li2,86	V.V.VARLAMOV
L0008004	3-Li	6	$\gamma, 2n$	31.12	.136	>4.	32.00	.4		Phys.Rev.L.15,727(1965)	B.L.BERMAN
L0008004				27.43	.087						
L0008004				29.72	.093						
M0107008	3-Li	6	γ, t	19.9	7.8	4.	24.00	28.3	1.3	Nucl.Phys.68,191(1965)	E.B.BAZHANOV
M0107008				21.9	7.7						
M0140013	3-Li	6	γ, t	20.	1.21	7.5	50.00	11.6	.5	CDFE/Li2,86	V.V.VARLAMOV
M0230002	3-Li	7	γ, abs	22.	3.1	>25.	217.00	187.5	4.4	Phys.Lett.B52,43(1974)	J.AHRENS
M0372002	3-Li	7	γ, abs	18.8	4.	25.	100.00	143.	4.64	Nucl.Phys.A251,479(1975)	J.AHRENS
M0372002							140.00	161.	4.79		
M0372002							210.00	206.	5.03		
M0214002	3-Li	7	γ, xn	19.5	3.21	>20.	56.00	101.	3.9	Phys.Rev.118,535(1960)	R.W.FAST
M0214002				47.5	2.13						
M0211003	3-Li	7	γ, xn	16.8	2.3	9.3	23.60	18.	1.3	Phys.Rev.110,1123(1958)	T.W.RYBKA
M0276002	3-Li	7	γ, xn	16.9	2.64	>10.	19.50	16.	1.	Nucl.Phys.A458,387(1986)	S.A.SIDDIQUI

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
L0030002	3-Li	7	γ, xn	18.42	2.338	10.	30.50	30.2		Phys.Rev.129,2723(1963)	R.L.BRAMBLETT
M0251004	3-Li	7	γ, xn	22.75	4.06	13.	30.00	50.	2.6	Nucl.Phys.69,241(1965)	E.HAYWARD
M0251004				17.5	3.72						
M0109002	3-Li	7	γ, xn	35.	4.87	35.	50.00	85.	3.4	Dokl.AN.SSSR,171,549(1966)	E.B.BAZHANOV
M0109002				22.	3.39						
M0109002				24.	4.42						
M0109002				41.	2.79						
M0140017	3-Li	7	γ, xn	17.	3.29	25.	50.00	87.8	3.7	CDFE/Li2,86	V.V.VARLAMOV
M0140017				22.5	2.81						
M0140017				30.5	2.55						
M0140017				35.	2.48						
L0030005	3-Li	7	γ, sn	14.75	1.565	13.	30.50	20.1	1.15	73PACIFI,1,175,73,P.175	R.L.BRAMBLETT
L0030003	3-Li	7	γ, n	14.75	.932	8.	30.50	10.		73PACIFI,1,175,73	R.L.BRAMBLETT
L0030004	3-Li	7	$\gamma, 2n$	19.06	.88	12.	30.50	10.1		73PACIFI,1,175,73	R.L.BRAMBLETT
M0247003	3-Li	7	γ, p	18.	1.35	20.	30.50	14.6	.8	Nucl.Phys.32,543(1962)	A.G.GREGORY
M0247003				27.	1.11						
M0102003	3-Li	7	γ, p	18.2	1.51	20.	30.00	13.9	.8	Izv.AN SSSR,27,1412(1963)	KUL'CHITSKIY
M0102003				14.1	1.27						
M0102003				16.2	1.51						
M0102003				21.7	1.52						
M0102003				25.2	.71						
M0113002	3-Li	7	γ, pt	24.5	.47	6.	27.00	1.	.03	Yad.Fiz.18,245(1973)	E.A.KOTIKOV
M0101007	3-Li	7	γ, t	19.4	.681	20.	25.80	7.5	.4	ZHETF,44,1153(1963)	KUL'CHITSKIY
M0102004	3-Li	7	γ, t	22.3	.771	20.	26.50	8.2	.4	Izv.AN SSSR,27,1412(1963)	KUL'CHITSKIY
M0102004				19.6	.718						
	3-Li	7	γ, t	17.	.2	20.	35.00	4.9		Nucl.Phys.69,241(1965)	E.HAYWARD
M0372003	4-Be	9	γ, abs	24.5	5.43	30.	100.00	173.	5.19	Nucl.Phys.A251,479(1975)	J.AHRENS
M0372003							140.00	189.	5.33		
M0372003							210.00	236.	5.58		
M0230003	4-Be	9	γ, abs	27.	5.19	30.	217.00	261.1	5.9	Phys.Lett.B52,43(1974)	J.AHRENS
M0451002	4-Be	9	γ, abs	20.5	9.	>20.	26.50	54.3	2.5	Nucl.Phys..31,570(1962)	U.MIKLAVZIC
M0451002				21.7	8.						
M0451002				25.5	8.5						
L0040004	4-Be	9	γ, xn	28.241	5.44	>20.	37.00	83.7		Nucl.Phys.A247,91(1975)	U.KNEISSL
	4-Be	9	γ, xn	26.	4.7	26.	70.00	220.	7.8	Nuov.Cim.42B,306,(1966)	S.COSTA
	4-Be	9	γ, sn	28.24	3.67	>15.	37.00	58.1	2.52	Nucl.Phys.A247,91(1975)	U.KNEISSL
L0040002	4-Be	9	γ, n	21.207	2.96	8.	37.00	32.5		Nucl.Phys.A247,91(1975)	U.KNEISSL
L0040003	4-Be	9	$\gamma, 2n$	36.495	2.38	>12.	37.00	25.6		Nucl.Phys.A247,91(1975)	U.KNEISSL
L0040003				27.503	2.26						
M0440002	4-Be	9	γ, p	21.	1.79	8.	31.00	15.6	.67	Nucl.Phys.65,662(1964)	A.P.KOMAR
L0044004	5-B	10	γ, xn	22.001	5.73	19.	35.00	83.1		Nucl.Phys.A264,30(1976)	U.KNEISSL
M0498002	5-B	10	γ, xn	22.9	6.75	10.	27.10	51.5	2.7	Nucl.Phys.A215,147(1973)	R.J.HUGHES
M0498002				20.2	5.6						
	5-B	10	γ, xn	24.	6.5	10.5	29.00	67.		Nucl.Phys.69,241(1965)	E.HAYWARD
L0010002	6-C	12	γ, sn	22.179	6.8	6.	37.40	46.8	1.83	Phys.Rev.143,790(1966)	S.C.FULTZ
L0010002				25.353	4.2						
L0041002	6-C	12	γ, n	23.367	8.73	6.	32.10	51.6	2.08	Nucl.Instr.Meth.127,1(1975)	U.KNEISSL
L0041002				25.472	5.48						
L0041002				30.069	3.56						
L0038002	6-C	12	γ, n	22.24	8.14	6.	27.00	36.	1.47	Phys.Rev.141,1002(1966)	W.A.LOCHSTET
L0038002				23.07	8.04						
L0038002				25.6	5.9						
L0010002	6-C	12	γ, n	22.179	6.8	6.	37.40	46.8	1.83	Phys.Rev.143,790(1966)	S.C.FULTZ
L0010002				25.353	4.2						
M0319002	6-C	12	γ, n	23.5	11.5	>4.	26.30	28.7	1.2	Nucl.Instr.A127,1(1975)	U.KNEISSL
M0319002				21.	3.3						
M0319002				22.	8.1						
M0319002				25.	8.7						
M0273002	6-C	12	γ, n	23.	13.1	4.	27.00	43.6	1.9	Can.J.Phys.29,518(1951)	L.KATZ
M0241002	6-C	12	$\gamma, 1n$	22.19	8.1	>5.	27.00	36.	1.5	Phys.Rev.141,1002(1966)	W.A.LOCHSTET
M0241002				23.13	8.						
M0241002				25.6	5.8						
M0033006	6-C	12	γ, np	41.	.65	20.	143.00	25.8	.4	Yad.Fiz.32,881(1980)	KHODYACHIKH
M0071003	6-C	12	$\gamma, n\alpha$	38.8	.446	10.	110.00	6.8	.2	Yad.Fiz.29,572(1979)	V.V.KIRICHENKO
M0013002	6-C	12	γ, p	22.75	13.85	5.	120.00	189.	6.5	Yad.Fiz.27,588(1978)	V.V.KIRICHENKO
	6-C	12	γ, p	22.4	13.5	3.5				Phys.Rev.C14,456(1976)	R.CARCHON
	6-C	12	γ, pt	37.5	.25	22.	150.00	8.1		Yad.Fiz.49,790(1989)	V.I.VOLOSHCHUK
				55.	.22						
M0071002	6-C	12	$\gamma, p\alpha$	29.8	.657	10.	110.00	9.7	.3	Yad.Fiz.29,572(1979)	V.V.KIRICHENKO
M0065002	6-C	12	$\gamma, np\alpha$	54.	.245	35.	140.00	11.8	.1	Ukr.Fiz.Zh.10,1465(1989)	I.V.DOGYUST
	6-C	12	$\gamma, 3\alpha$	19.	.23	3.5				Nucl.Phys.50,561(1964)	M.E.TOMS
M0207002	5-B	10	γ, sn	23.81	5.93	>7.	25.30	44.6	2.4	Nucl.Phys.A469,381(1987)	M.H.AHSAN
M0207002				21.21	5.015						
	5-B	10	γ, sn	22.	5.73	17.	35.00	80.8	3.7	Nucl.Phys.A264,30(1976)	U.KNEISSL
L0044002	5-B	10	γ, n	22.001	5.55	17.	35.00	80.4		Nucl.Phys.A264,30(1976)	U.KNEISSL
L0044003	5-B	10	$\gamma, 2n$	28.057	.68	>20.	35.00	1.9		Nucl.Phys.A264,30(1976)	U.KNEISSL
L0044007	5-B	11	γ, xn	26.081	6.88	15.	35.10	84.1		Nucl.Phys.A264,30(1976)	U.KNEISSL
L0044007				19.749	4.06						
M0498003	5-B	11	γ, xn	25.5	8.95	>10.	27.50	58.8	2.8	Nucl.Phys.A215,147(1973)	R.J.HUGHES
	5-B	11	γ, xn	26.	7.5	11.	29.00	69.		Nucl.Phys.69,241(1965)	E.HAYWARD
	5-B	11	γ, sn	26.08	5.28	15.	35.10	69.2	2.93	Nucl.Phys.A264,30(1976)	U.KNEISSL
				19.75	3.95						
L0044005	5-B	11	γ, n	19.491	3.99	15.	35.10	54.3		Nucl.Phys.A264,30(1976)	U.KNEISSL
L0044005				21.503	3.66						
L0044005				26.58	3.79						
L0044006	5-B	11	$\gamma, 2n$	26.081	1.92	11.	35.10	14.9		Nucl.Phys.A264,30(1976)	U.KNEISSL
	5-B	11	γ, p	25.	15.	10.	31.00	98.		Yad.Fiz.9,254(1969)	YU.I.SOROKIN
M0372004	6-C	12	γ, abs	22.7	21.36	6.	100.00	291.	8.81	Nucl.Phys.A251,479(1975)	J.AHRENS
M0372004							140.00	334.	9.18		
M0160002	6-C	12	γ, abs	22.57	17.8	3.2	28.00	84.	3.8	ZHETF,45,1694(1963)	N.A.BURGOV
M0160002				17.61	8.7						
M0160002				18.87	7.3						
M0160002				25.61	9.2						
L0041002	6-C	12	γ, xn	23.367	8.73	6.	32.10	51.6	2.08	Nucl.Instr.Meth.127,1(1975)	U.KNEISSL
L0041002				25.472	5.48						
L0041002				30.069	3.56						
	6-C	12	γ, xn	23.1	8.	>5.	27.00	36.	1.47	Phys.Rev.141,1002(1966)	W.A.LOCHSTET
	6-C	12	γ, xn	23.3	7.2	>4.	25.50	29.4		J.Phisique,27,8(1966)	J.MILLER

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
L0010002	6-C	12	γ, xn	22.798	7.22	6.	37.40	46.8	1.83	Phys.Rev.143,790(1966)	S.C.FULTZ
L0010002				25.353	4.2						
M0238002	6-C	12	γ, xn	22.972	12.12	>4.	24.20	24.8	1.1	Yad.Fiz.14,253(1971)	B.S.ISHKHANOV
M0238002				21.925	8.91						
M0238002				22.542	10.14						
M0238002				23.401	10.03						
M0238002				23.757	9.56						
L0041002	6-C	12	γ, sn	23.367	8.73	6.	32.10	51.6	2.08	Nucl.Instr.Meth.127,1(1975)	U.KNEISSL
L0041002				25.472	5.48						
L0041002				30.069	3.56						
L0038002	6-C	12	γ, sn	22.24	8.14	6.	27.00	36.	1.47	Phys.Rev.141,1002(1966)	W.A.LOCHSTET
L0038002				23.07	8.04						
L0038002				25.6	5.9						
	6-C	12	γ, sn	23.	7.	4.8	30.00	36.		Phys.Rev.143,790(1966)	S.C.FULTZ
L0048004	6-C	13	γ, xn	24.431	9.73		41.80	126.1	5.72	Phys.Rev.C19,1684(1979)	J.W.JURY
L0048004				13.817	3.94						
L0048004				20.976	6.6						
L0048004	6-C	13	γ, sn	24.431	9.73		41.80	126.1	5.72	Phys.Rev.C19,1684(1979)	J.W.JURY
L0048004				13.817	3.94						
L0048004				20.976	6.6						
L0048002	6-C	13	γ, n	24.431	9.71		41.80	121.3		Phys.Rev.C19,1684(1979)	J.W.JURY
L0048002				13.817	3.94						
L0048002				20.976	6.6						
M0363002	6-C	13	γ, n	23.77	8.11	>25.	25.00	41.	2.2	Nucl.Phys.A272,296(1976)	R.KOCH
M0363002				15.07	1.93						
M0363002				20.58	4.25						
L0048003	6-C	13	$\gamma, 2n$	35.065	.56	12.	41.80	4.7		Phys.Rev.C19,1684(1979)	J.W.JURY
	6-C	13	γ, p	19.75	3.4	7.	28.00	36.		Phys.Rev.C27,1957(1983)	D.ZUBANOV
L0056004	6-C	14	γ, xn	26.078	13.568		36.20	163.		Phys.Rev.C32,384(1985)	R.E.PYWELL
L0056004				15.417	9.531						
	6-C	14	γ, sn	15.42	9.53		36.20	126.	6.09	Phys.Rev.C32,384(1985)	R.E.PYWELL
				26.08	7.57						
L0056002	6-C	14	γ, n	15.417	8.956	10.	36.20	89.7		Phys.Rev.C32,384(1985)	R.E.PYWELL
L0056002				22.493	5.267						
L0056002				28.892	3.779						
L0056003	6-C	14	$\gamma, 2n$	26.078	5.737	5.	36.20	36.6		Phys.Rev.C32,384(1985)	R.E.PYWELL
	6-C	14	γ, p	5.6	2.5	1.	29.10	17.9		Phys.Rev.C44,1137(1991)	D.J.MCLEAN
				22.5	1.6						
	7-N	14	γ, abs	22.5	27.	7.	30.00	195.	8.4	Nucl.Phys.A128,426(1969)	N.BEZIC
M0214003	7-N	14	γ, xn	22.5	13.45	3.8	50.00	113.5	4.3	Phys.Rev.118,535(1960)	R.W.FAST
L0019002	7-N	14	γ, xn	23.343	14.65	7.	29.50	98.	4.36	Phys.Rev.C2,2318(1970)	B.L.BERMAN
L0019002	7-N	14	γ, sn	23.343	14.65	7.	29.50	98.	4.36	Phys.Rev.C2,2318(1970)	B.L.BERMAN
L0019002	7-N	14	γ, n	23.343	14.65	7.	29.50	98.	4.36	Phys.Rev.C2,2318(1970)	B.L.BERMAN
	7-N	14	γ, np	41.	.83	7.	45.00	54.2		Ukr.Fiz.Zh.34,511(1989)	V.I.VOLOSHCHUK
M0264003	7-N	15	γ, abs	25.43	22.49	7.2	27.00	129.7	6.2	Phys.Rev.C40,506(1989)	A.D.BATES
M0264003				19.85	11.76						
M0264003				21.75	12.52						
M0264002	7-N	15	γ, xn	25.89	14.86	3.9	26.50	78.9	2.8	Phys.Rev.C40,506(1989)	A.D.BATES
L0053004	7-N	15	γ, xn	22.964	11.78	7.	38.00	114.	4.65	Phys.Rev.C26,777(1982)	J.W.JURY
L0053004				25.106	10.58						
	7-N	15	γ, sn	22.96	11.78	7.	38.00	105.9	4.7	Phys.Rev.C26,777(1982)	J.W.JURY
M0264002	7-N	15	γ, sn	25.89	14.86	3.9	26.50	78.9	2.8	Phys.Rev.C40,506(1989)	A.D.BATES
L0053002	7-N	15	γ, n	22.964	11.68	7.	38.00	98.8		Phys.Rev.C26,777(1982)	J.W.JURY
L0053003	7-N	15	$\gamma, 2n$	30.818	1.01	7.	38.00	7.6		Phys.Rev.C26,777(1982)	J.W.JURY
L0053003				27.724	.94						
M0480002	7-N	15	$\gamma, 2n$	26.1	1.7	1.8	27.00	3.6	.1	Phys.Rev.C37,1403(1988)	K.G.MCNEILL
M0480002				22.9	.33						
M0372005	8-O	16	γ, abs	22.35	30.91	6.	100.00	432.	14.5	Nucl.Phys.A251,479(1975)	J.AHRENS
M0372005							140.00	508.	15.1		
M0345002	8-O	16	γ, xn	22.2	10.81	6.5	28.00	46.8	2.	Yad.Konst.1,52(1993)	V.V.VARLAMOV
M0345002				17.22	2.925						
M0345002				19.44	2.078						
M0345002				24.12	9.658						
L0054002	8-O	16	γ, xn	22.107	10.514	7.5	33.10	61.5	2.51	Phys.Rev.C27,1(1983)	B.L.BERMAN
L0054002				24.202	8.916						
L0041003	8-O	16	γ, xn	22.204	8.73	6.	37.00	62.9	2.4	Nucl.Instr.Meth.127,1(1975)	U.KNEISSL
L0041003				24.05	8.1						
L0039005	8-O	16	γ, xn	22.15	10.3	5.	37.10	80.1		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039005				24.05	9.7						
M0396002	8-O	16	γ, xn	22.46	14.79	>4.	25.00	32.12	1.6	Yad.Fiz.12,892(1970)	B.S.ISHKHANOV
M0396002				17.28	4.298						
M0396002				18.93	3.075						
M0396002				21.26	4.21						
M0396002				24.19	12.94						
	8-O	16	γ, xn	22.	10.5		26.50	41.5		J.Phisique,27,8(1966)	J.MILLER
				24.2	9.						
L0036002	8-O	16	γ, xn	22.372	8.91		28.00	41.5	1.76	Phys.Rev.L.15,976(1965)	J.T.CALDWELL
L0036002				24.223	8.11						
	8-O	16	γ, xn	22.2	42.	4.5	26.60	150.		ZHETF,43,70(1962)	N.A.BURGOV
L0051004	8-O	16	γ, xn	22.3	8.3	6.	33.10	61.5		Phys.Rev.C22,2273(1980)	B.L.BERMAN
L0051004				24.1	8.						
L0054002	8-O	16	γ, sn	22.107	10.514	7.5	33.10	61.5	2.51	Phys.Rev.C27,1(1983)	B.L.BERMAN
L0054002				24.202	8.916						
L0040005	8-O	16	γ, sn	22.2	8.73	6.	37.00	62.	2.4	Nucl.Phys.A247,91(1975)	U.KNEISSL
L0040005				24.05	8.1						
L0041003	8-O	16	γ, sn	22.204	8.73	6.	37.00	62.9	2.4	Nucl.Instr.Meth.127,1(1975)	U.KNEISSL
L0041003				24.05	8.1						
	8-O	16	γ, sn	22.15	10.3	5.	37.10	79.6	3.04	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
				24.1	9.7						
	8-O	16	γ, sn	22.37	8.91		28.00	41.5	1.8	Phys.Rev.L.15,976(1965)	J.T.CALDWELL
				24.22	8.11						
L0036002	8-O	16	γ, sn	22.372	8.91		28.00	41.5	1.76	Phys.Rev.L.15,976(1965)	J.T.CALDWELL
L0036002				24.223	8.11						
L0051004	8-O	16	γ, sn	22.3	8.3	6.	30.00	53.8	2.51	Phys.Rev.C22,2273(1980)	B.L.BERMAN
L0051004				24.1	8.						
L0005002	8-O	16	γ, n	17.301	1.85	2.7				Phys.Rev.B133,869(1964)	R.L.BRAMBLETT
L0005002				19.646	1.6						
L0054002	8-O	16	γ, n	22.107	10.514	7.5	33.10	61.5		Phys.Rev.C27,1(1983)	B.L.BERMAN

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
L0054002				24.202	8.916						
L0041003	8-O	16	γ, n	22.204	8.73	6.	37.00	62.9	2.4	Nucl.Instr.Meth.127,1(1975)	U.KNEISSL
L0041003				24.05	8.1						
L0036002	8-O	16	γ, n	22.372	8.91		28.00	41.5	1.76	Phys.Rev.L.15,976(1965)	J.T.CALDWELL
L0036002				24.223	8.11						
L0039002	8-O	16	γ, n	22.15	10.3	5.	37.10	78.9		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039002				24.05	9.7						
	8-O	16	γ, n	22.37	8.91		28.00	41.5		Phys.Rev.L.15,976(1965)	J.T.CALDWELL
				24.22	8.11						
L0051004	8-O	16	γ, n	22.3	8.3	6.	33.10	61.5		Phys.Rev.C22,2273(1980)	B.L.BERMAN
L0051004				24.1	8.						
L0039004	8-O	16	γ, np	30.82	1.7	8.5	37.10	11.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039003	8-O	16	$\gamma, 2n$	32.72	.23		37.10	.6		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
M0039002	8-O	16	γ, p	21.	7.28	10.	120.00	139.	5.6	Ukr.Fiz.Zh.25,229(1980)	KHODYACHIKH
	8-O	16	γ, α	13.	.02					Nucl.Phys.54,625(1964)	M.E.TOMS
				16.8	.013						
	8-O	16	$\gamma, 4\alpha$	20.5	.08	2.	21.50	.124		Nucl.Phys.54,625(1964)	M.E.TOMS
	8-O	17	γ, xn	23.19	13.28	6.	39.70	128.		Phys.Rev.C21,503(1980)	J.W.JURY
L0049002	8-O	17	γ, sn	23.19	13.28	6.	40.00	120.	5.22	Phys.Rev.C21,503(1980)	J.W.JURY
L0049003	8-O	17	γ, n	22.822	12.46	6.	39.70	111.		Phys.Rev.C21,503(1980)	J.W.JURY
L0049004	8-O	17	$\gamma, 2n$	34.915	1.03	16.	39.70	9.3		Phys.Rev.C21,503(1980)	J.W.JURY
L0049004				24.549	.74						
L0049004				31.213	.82						
L0047004	8-O	18	γ, xn	23.673	17.74	17.	41.80	275.		Phys.Rev.C19,1667(1979)	WOODWORTH
L0047004				11.453	9.01						
L0047004				14.813	13.13						
L0045004	8-O	18	γ, xn	23.33	16.83	18.	33.00	191.		Nucl.Phys.A272,125(1976)	U.KNEISSL
L0045004				11.315	6.25						
L0045004				14.507	10.84						
	8-O	18	γ, sn	23.43	12.54	18.	41.80	198.3	9.08	Phys.Rev.C19,1667(1979)	WOODWORTH
				11.45	9.						
				14.81	11.53						
	8-O	18	γ, sn	23.33	10.57	>18.	35.00	142.	6.9	Nucl.Phys.A272,125(1976)	U.KNEISSL
				14.51	9.						
L0047002	8-O	18	γ, n	11.453	9.	23.	41.80	121.5		Phys.Rev.C19,1667(1979)	WOODWORTH
L0047002				14.813	8.65						
L0047002				23.673	6.87						
L0047002				26.987	6.93						
L0045002	8-O	18	γ, n	30.752	8.07	>23.	35.00	93.		Nucl.Phys.A272,125(1976)	U.KNEISSL
L0045002				11.315	6.25						
L0045002				14.507	8.02						
L0045002				23.33	6.39						
	8-O	18	γ, np	27.5	1.2	8.	30.00	5.6	.21	Phys.Rev.C43,489(1991)	K.G.MCNEIL
							43.00	11.8	.39		
L0047003	8-O	18	$\gamma, 2n$	23.426	5.59	15.	41.80	76.7		Phys.Rev.C19,1667(1979)	WOODWORTH
L0047003				15.796	4.01						
L0045003	8-O	18	$\gamma, 2n$	23.164	5.35	11.	35.00	49.		Nucl.Phys.A272,125(1976)	U.KNEISSL
M0242002	8-O	18	γ, p	22.57	5.055	6.5	32.00	33.6	1.5	Nucl.Phys.A376,15(1982)	K.BANGERT
M0242002				23.57	4.994						
L0047005	8-O	18	γ, p	23.673	6.14	7.	41.80	44.		Phys.Rev.C19,1667(1979)	WOODWORTH
L0047005				17.517	1.22						
L0047005				19.938	1.81						
L0047005				26.754	3.39						
	8-O	18	γ, p	23.1	5.5	8.	30.60	29.8		Phys.Rev.L.36,1441(1976)	B.L.BERMAN
				25.2	3.3						
	9-F	19	γ, abs	24.	18.	14.	30.00	271.		Nucl.Phys.A128,426(1969)	N.BEZIC
L0039008	9-F	19	γ, xn	25.13	12.1	>10.	27.80	109.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039008				12.26	3.7						
	9-F	19	γ, sn	24.86	11.1	>10.	27.80	104.	4.95	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039006	9-F	19	γ, n	23.77	10.4	>10.	27.80	99.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039006				12.26	3.7						
	9-F	19	$\gamma, 2n$	24.7	.48	>40.	60.00	9.1		Nucl.Phys.A262,91(1976)	D.W.ANDERSON
				40.5	.25						
				56.6	.26						
L0039007	9-F	19	$\gamma, 2n$	27.03	1.7	>7.	27.80	5.2		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039007				25.13	1.2						
L0039011	10-Ne		γ, xn	20.52	8.3	8.	25.90	46.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039011				17.81	3.6						
L0039011				25.13	5.9						
	10-Ne		γ, sn	19.17	6.6	8.	25.90	43.	1.98	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039009	10-Ne		γ, n	19.17	6.6	8.	25.90	40.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039009				17.81	3.6						
L0039009				20.25	6.6						
L0039009				22.15	5.2						
L0039009				25.4	5.8						
L0039010	10-Ne		$\gamma, 2n$	20.52	1.1	3.	25.90	3.1		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
M0369002	10-Ne	20	γ, n	19.	12.14	5.	28.40	58.2	2.6	Nucl.Phys.A357,171(1981)	P.D.ALLEN
M0369002				17.7	5.14						
M0369002				19.9	10.71						
	10-Ne	22	$\gamma, 2n$	20.7	13.	3.				Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	11-Na	23	γ, abs	21.1	21.1	>13.	29.50	330.		Yad.Fiz.33,581(1981)	B.S.ISHKHANOV
				28.6	19.						
	11-Na	23	γ, abs	23.	15.	16.	30.00	200.	11.	Phys.Rev.137,B576(1965)	J.M.WYCKOF
L0039014	11-Na	23	γ, xn	26.62	12.7	14.	30.10	139.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0022002	11-Na	23	γ, xn	26.143	14.38	>15.	27.10	120.		Phys.Rev.C4,1673(1971)	R.A.ALVAREZ
	11-Na	23	γ, sn	26.76	12.5	14.	30.10	136.	6.18	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0022008	11-Na	23	γ, sn	26.143	13.91	>15.	27.10	119.	5.74	Phys.Rev.C4,1673(1971)	R.A.ALVAREZ
L0039012	11-Na	23	γ, n	24.18	12.5	14.	30.10	133.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0022003	11-Na	23	γ, n	26.143	13.25	>15.	27.10	118.		Phys.Rev.C4,1673(1971)	R.A.ALVAREZ
L0039013	11-Na	23	$\gamma, 2n$	29.19	1.6	>5.	30.10	2.7		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0022004	11-Na	23	$\gamma, 2n$	26.561	.56	>3.	27.10	.6		Phys.Rev.C4,1673(1971)	R.A.ALVAREZ
	11-Na	23	γ, p	20.6	30.1	>13.				Yad.Fiz.33,581(1981)	B.S.ISHKHANOV
				27.6	22.8						
	12-Mg		γ, abs	19.	24.	13.	30.00	225.	12.	Phys.Rev.137,B576(1965)	J.M.WYCKOFF
	12-Mg		γ, p	22.5	18.	11.	32.00	180.		Phys.Lett.9,162(1964)	B.S.ISHKHANOV
	12-Mg		γ, p	20.	13.5	6.	23.00	70.		J.Phys.Soc.Jap.17,735(1962)	K.SHODA
L0026002	12-Mg	24	γ, xn	19.16	9.9	8.	28.30	51.9	2.37	Phys.Rev.C4,149(1971)	S.C.FULTZ
L0026002				20.011	9.03						

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
L0026002	12-Mg	24	γ, sn	19.16	9.9		28.30	51.9	2.37	Phys.Rev.C4,149(1971)	S.C.FULTZ
L0026002				20.011	9.03						
	12-Mg	24	γ, n	20.	12.					Nucl.Phys.A186,438(1972)	B.S.ISHKHANOV
				19.3	11.						
				24.6	8.						
L0026002	12-Mg	24	γ, n	19.16	9.9	8.	28.30	51.9	2.37	Phys.Rev.C4,149(1971)	S.C.FULTZ
L0026002				20.011	9.03						
M0001027	12-Mg	24	γ, p	19.3	25.29	7.	29.50	183.	8.4	Yad.Fiz.30,1185(1979)	V.V.VARLAMOV
M0001027				24.9	20.6						
L0022005	12-Mg	25	γ, xn	23.185	27.7	>11.	28.90	248.	12.	Phys.Rev.C4,1673(1971)	R.A.ALVAREZ
L0022009	12-Mg	25	γ, sn	23.185	27.7	9.	28.90	247.	11.5	Phys.Rev.C4,1673(1971)	R.A.ALVAREZ
L0022006	12-Mg	25	γ, n	23.185	27.7	9.	28.90	245.	11.	Phys.Rev.C4,1673(1971)	R.A.ALVAREZ
L0022007	12-Mg	25	$\gamma, 2n$	28.099	0.8	>5.	28.90	1.5		Phys.Rev.C4,1673(1971)	R.A.ALVAREZ
	12-Mg	26	γ, xn	22.25	12.					Nucl.Phys.A186,438(1972)	B.S.ISHKHANOV
				17.5	17.						
				24.5	15.5						
L0026003	12-Mg	26	γ, xn	22.14	35.87	>10.	28.60	308.		Phys.Rev.C4,149(1971)	S.C.FULTZ
L0026003				17.646	22.84						
L0026006	12-Mg	26	γ, sn	22.14	25.12	>10.	28.60	236.	11.5	Phys.Rev.C4,149(1971)	S.C.FULTZ
L0026006				17.646	22.84						
L0026004	12-Mg	26	γ, n	17.646	22.84	>10.	28.60	164.		Phys.Rev.C4,149(1971)	S.C.FULTZ
L0026005	12-Mg	26	$\gamma, 2n$	21.931	13.89	>8.	28.60	72.		Phys.Rev.C4,149(1971)	S.C.FULTZ
L0026005				24.858	12.23						
M0002013	12-Mg	26	γ, p	24.1	19.68	10.	27.00	101.3	4.6	Nucl.Phys.A313,317(1979)	B.S.ISHKHANOV
M0002013				17.8	5.07						
M0002013				20.7	10.05						
M0002013				21.8	15.1						
M0002013				23.4	18.97						
	12-Mg	26	γ, p	23.	20.	10.	29.00	140.		Nucl.Phys.A222,548(1974)	V.V.VARLAMOV
							20.10	10.5			
							26.00	18.			
M0372006	13-Al	27	γ, abs	20.8	41.6	9.	100.00	739.	25.7	Nucl.Phys.A251,479(1975)	J.AHRENS
M0372006							140.00	807.	26.3		
L0039017	13-Al	27	γ, xn	21.2	15.8	13.	30.30	152.	6.77	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	13-Al	27	γ, xn	22.	14.51	6.				Izv.AN SSSR,33,1742(1969)	B.S.ISHKHANOV
				19.	6.7						
				24.	5.83						
	13-Al	27	γ, xn	21.4	19.1	10.				Lett.Nuov.Cim.2,318(1969)	S.COSTA
L0010004	13-Al	27	γ, xn	21.25	14.54	14.	36.70	175.		Phys.Rev.143,790(1966)	S.C.FULTZ
	13-Al	27	γ, xn	22.	14.51	6.				Izv.AN SSSR,31,336(1967)	G.P.ANTROPOV
				19.	6.7						
				20.5	9.1						
				22.5	10.08						
L0039017	13-Al	27	γ, sn	21.2	15.8	13.	30.30	152.	6.77	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0010007	13-Al	27	γ, sn	21.404	14.89	14.	36.70	167.	7.17	Phys.Rev.143,790(1966)	S.C.FULTZ
L0039015	13-Al	27	γ, n	21.2	15.8	13.	30.30	150.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039015				19.84	14.3						
L0010005	13-Al	27	γ, n	21.404	14.89	11.	36.70	159.		Phys.Rev.143,790(1966)	S.C.FULTZ
M0267002	13-Al	27	$\gamma, 1n$	20.62	5.52	6.5	24.60	31.5	1.6	Phys.Rev.141,1002(1966)	W.A.LOCHSTET
M0267002				18.54	4.97						
M0267002				19.62	5.31						
M0267002				21.38	5.46						
	13-Al	27	γ, p	19.9	17.5	>8.	23.00	110.		J.Phys.Soc.Jap.17,735(1962)	K.SHODA
L0039016	13-Al	27	$\gamma, 2n$	29.74	.6		30.30	.6		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0010006	13-Al	27	$\gamma, 2n$	34.567	1.43	>8.	36.70	7.6		Phys.Rev.143,790(1966)	S.C.FULTZ
	13-Al	27	$\gamma, 2p$	30.5	.29	10.	63.00	28.		Phys.Rev.110,1113(1958)	L.B.AULL
M0372007	14-Si		γ, abs	20.24	58.73	5.	29.80	392.8	18.7	Nucl.Phys.A251,479(1975)	J.AHRENS
M0372007				18.28	43.47						
M0372007				19.	48.31						
M0372007				21.42	58.09						
L0039018	14-Si		γ, xn	19.84	16.	4.	30.00	95.	4.25	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039018				18.9	11.2						
L0039018				20.79	15.8						
	14-Si		γ, xn	21.3	16.	5.				Lett.Nuov.Cim.2,318(1969)	S.COSTA
	14-Si		γ, xn	20.8	18.	4.				Yad.Fiz.7,1168(1968)	B.I.GORYACHEV
L0039018	14-Si		γ, sn	19.84	16.	4.	30.00	95.	4.25	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039018				18.9	11.2						
L0039018				20.79	15.8						
L0039018	14-Si		γ, n	19.84	16.	4.	30.00	95.	4.25	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039018				18.9	11.2						
L0039018				20.79	15.8						
L0055002	14-Si	28	γ, xn	20.774	14.487	4.	33.10	105.	4.46	Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055002				18.87	11.269						
L0055002				19.822	13.212						
	14-Si	28	γ, sn	21.	15.	5.	31.00	93.		Nucl.Phys.A171,324(1971)	D.V.WEBB
L0055002	14-Si	28	γ, sn	20.774	14.487	4.	33.10	105.	4.46	Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055002				18.87	11.269						
L0055002				19.822	13.212						
L0055002	14-Si	28	γ, n	20.774	14.487	4.	33.10	105.	4.46	Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055002				18.87	11.269						
L0055002				19.822	13.212						
L0004002	14-Si	28	γ, n	19.86	11.05	4.5	33.00	68.	3.	Phys.Lett.6,213(1963)	J.T.CALDWELL
L0004002				20.77	10.64					Phys.Lett.6,213(1963)	J.T.CALDWELL
M0397002	14-Si	28	γ, n	20.78	18.95	4.5	29.50	102.9	4.6	Yad.Fiz.2,1168(1968)	B.I.GORYACHEV
M0397002				18.74	13.03						
M0397002				19.75	17.66						
M0397002				27.26	17.73						
M0345003	14-Si	28	γ, n	19.78	16.49	4.5	30.00	94.6	4.3	Yad.Konst.1,52(1993)	V.V.VARLAMOV
M0345003				18.18	7.468						
M0345003				18.74	11.5						
M0345003				20.78	15.73						
	14-Si	28	γ, p	21.	40.	5.	22.50	128.		Phys.Rev.C27,470(1983)	R.L.GULBRANSON
				19.	42.						
M0003025	14-Si	28	γ, p	20.1	45.75	4.5	28.00	265.7	12.4	Izv.AN SSSR,43,186(1979)	V.V.VARLAMOV
	14-Si	28	γ, p	18.7	31.4	4.	23.00	140.		J.Phys.Soc.Jap.17,735(1962)	K.SHODA
L0055003	14-Si	29	γ, xn	21.346	18.87	4.	33.10	194.5	8.65	Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055003	14-Si	29	γ, sn	21.346	18.87	4.	33.10	194.5	8.65	Phys.Rev.C27,960(1983)	R.E.PYWELL
	14-Si	29	γ, sn	21.2	18.5	10.				Nucl.Phys.A369,141(1981)	R.E.PYWELL

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
				26.	13.5						
L0055003	14-Si	29	γ, n	21.346	18.87	4.	33.10	194.5	8.65	Phys.Rev.C27,960(1983)	R.E.PYWELL
	14-Si	30	γ, xn	20.2	23.65	13.	33.10	316.		Phys.Rev.C27,960(1983)	R.E.PYWELL
	14-Si	30	γ, xn	22.5	30.	11.	28.00	264.		Nucl.Phys.A388,445(1982)	G.ODGERS
L0055006	14-Si	30	γ, xn	21.917	23.752	4.	33.10	316.		Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055006	14-Si	30	γ, xn	15.634	13.866	4.	33.10	316.		Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055006	14-Si	30	γ, xn	18.68	22.936	4.	33.10	316.		Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055006	14-Si	30	γ, xn	20.203	23.648	4.	33.10	316.		Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055006	14-Si	30	γ, xn	26.058	21.273	4.	33.10	316.		Phys.Rev.C27,960(1983)	R.E.PYWELL
	14-Si	30	γ, sn	20.2	23.65	12.	33.10	249.	12.1	Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055004	14-Si	30	γ, n	18.68	22.806	8.	33.10	181.		Phys.Rev.C27,960(1983)	R.E.PYWELL
L0055004				30.818	8.78						
L0055005	14-Si	30	$\gamma, 2n$	23.059	10.146	7.	33.10	67.5		Phys.Rev.C27,960(1983)	R.E.PYWELL
	15-P	31	γ, xn	23.6	22.53	9.	30.00	211.		Izv.AN SSSR,33,1742(1969)	B.S.ISHKHANOV
				19.4	18.66						
				21.3	21.12						
	15-P	31	γ, xn	22.	13.	11.5	28.00	127.		Phys.Rev.132,2251(1963)	L.N.BOLE
L0039022	15-P	31	γ, xn	21.2	19.8	12.	28.60	179.	8.34	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039019	15-P	31	γ, n	21.2	19.8	12.	28.60	178.	8.34	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
M0273003	15-P	31	γ, n	19.	16.6	7.	25.00	115.3	6.	Can.J.Phys.29,518(1951)	L.KATZ
	15-P	31	$\gamma, 1n$	19.5	19.	7.5				Can.J.Phys.41,180(1963)	W.J.MCDONALD
L0039020	15-P	31	γ, np	25.13	7.8	>10.	28.60	44.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039021	15-P	31	$\gamma, 2n$	28.11	.7	1.	28.60	1.1		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	15-P	31	γ, p	21.	43.	10.	32.00	350.		Phys.Lett.9,162(1964)	B.S.ISHKHANOV
	15-P	31	$\gamma, 2p$	32.	.28	15.				Nucl.Phys.A150,625(1970)	D.W.ANDERSON
	15-P	31	$\gamma, 2p$N	49.	.36	>15.				Nucl.Phys.A150,625(1970)	D.W.ANDERSON
	16-S		γ, abs	20.	50.	7.	30.00	400.	22.	Phys.Rev.137,B576(1965)	J.M.WYCKOFF
	16-S		γ, xn	21.5	15.3		30.00	749.		Yad.Fiz.7,1168(1968)	B.I.GORYACHEV
				19.	14.4						
	16-S		γ, xn	21.	15.19	5.				Izv.AN SSSR,31,336(1967)	G.P.ANTROPOV
				19.	8.36						
				22.5	12.15						
				24.5	6.49						
	16-S		γ, p	21.	50.	9.	32.00	370.		Phys.Lett.9,162(1964)	B.S.ISHKHANOV
	16-S	32	γ, xn	21.	16.	11.	32.00	137.		Nucl.Phys.A156,74(1970)	D.W.ANDERSON
L0039026	16-S	32	γ, xn	19.71	10.5	13.	32.20	98.	4.24	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039026				25.4	6.6						
L0039023	16-S	32	γ, n	19.71	10.5	13.	32.20	98.	4.24	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039023				25.4	6.6						
L0039025	16-S	32	γ, np	28.92	2.7	>10.	30.00	14.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039024	16-S	32	$\gamma, 2n$	30.	.1		29.47	.1		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
M0510006	16-S	34	γ, abs	22.	66.34	7.5	26.00	446.5	22.8	Nucl.Phys.A460,455(1986)	Y.I.ASSAFIRI
M0510006				17.	39.51						
M0506002	16-S	34	γ, sn	17.6	36.88	8.	27.00	247.	13.1	Nucl.Phys.A413,416(1984)	Y.I.ASSAFIRI
M0506002				12.8	11.03						
M0506002				21.	31.16						
M0510003	16-S	34	γ, np	25.46	10.73	>5.	26.00	28.	1.	Nucl.Phys.A460,455(1986)	Y.I.ASSAFIRI
M0506003	16-S	34	$\gamma, 2n$	25.8	11.36	6.	27.00	35.	1.5	Nucl.Phys.A413,416(1984)	Y.I.ASSAFIRI
M0506003				22.	7.83						
M0510002	16-S	34	γ, p	23.06	36.24	6.	26.00	213.	10.4	Nucl.Phys.A460,455(1986)	Y.I.ASSAFIRI
M0510002				16.91	13.76						
L0039029	17-Cl		γ, xn	22.96	30.3	12.	27.60	292.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	17-Cl		γ, sn	22.96	26.3	12.	27.60	273.	13.3	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039027	17-Cl		γ, n	20.79	25.5	12.	27.60	254.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039028	17-Cl		$\gamma, 2n$	23.23	4.	4.	27.60	19.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	17-Cl	35	γ, n	20.	14.	6.5	27.00	93.		J.Phys.Soc.Jap.17,1681(1962)	K.KURIYAMA
	17-Cl	37	$\gamma, 2n$	23.	14.	>5.				Nucl.Phys.A227,513(1974)	A.VEYSSIERE
M0214004	18-Ar		γ, xn	21.5	41.51	10.	25.00	392.		Phys.Rev.118,535(1960)	R.W.FAST
M0214004							50.00	598.	25.		
	18-Ar	40	γ, abs	20.9	50.	10.	26.00	434.		Nucl.Phys.A398,415(1983)	R.A.SUTTON
				16.	42.						
	18-Ar	40	γ, abs	19.	42.	10.	32.00	450.		Z.Physik,187,210(1965)	D.EHHALT
L0039032	18-Ar	40	γ, xn	21.88	52.	10.	26.80	538.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039032				18.63	47.1						
M0346010	18-Ar	40	γ, xn	18.97	33.14	>10.	21.00	178.8	10.3	Can.J.Phys.51,1176(1973)	J.W.JURY
	18-Ar	40	γ, sn	17.4	40.	11.	27.00	382.		Nucl.Phys.A398,415(1983)	R.A.SUTTON
				20.9	40.						
	18-Ar	40	γ, sn	16.73	39.6	10.	26.80	390.	21.	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	18-Ar	40	γ, n	16.	38.	5.	27.00	232.		Nucl.Phys.A398,415(1983)	R.A.SUTTON
				20.9	15.						
L0039030	18-Ar	40	γ, n	16.73	33.7	6.	26.80	242.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	18-Ar	40	γ, n	19.	37.	5.	32.00	200.		Z.Physik,187,210(1965)	D.EHHALT
	18-Ar	40	$\gamma, 2n$	20.9	25.	7.	27.00	148.		Nucl.Phys.A398,415(1983)	R.A.SUTTON
L0039031	18-Ar	40	$\gamma, 2n$	21.34	21.9	8.	26.80	148.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	18-Ar	40	γ, p	23.4	21.4	3.	26.00	61.		Nucl.Phys.A398,415(1983)	R.A.SUTTON
				21.04	10.9						
L0039036	19-K		γ, xn	20.93	24.4	8.	31.60	218.	9.7	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039036	19-K		γ, sn	20.93	24.4	8.	31.60	217.	9.7	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039033	19-K		γ, n	20.93	24.4	8.	31.60	216.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039035	19-K		γ, np	25.4	7.	4.	27.80	39.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039035				21.34	6.7						
L0039034	19-K		$\gamma, 2n$	31.09	.5	1.	31.60	1.1		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	19-K	39	γ, n	20.	16.	7.	30.00	102.		Nucl.Phys.A171,324(1971)	D.V.WEBB
M0372008	20-Ca		γ, abs	19.77	97.06	5.	100.00	1120.	45.5	Nucl.Phys.A251,479(1975)	J.AHRENS
M0372008							140.00	1290.	46.8		
	20-Ca	40	γ, abs	20.2	110.		28.50	920.	49.6	Phys.Lett.17,49(1965)	B.S.DOLBILKIN
	20-Ca	40	γ, abs	20.	105.	4.5				Phys.Rev.137,B576(1965)	J.M.WYCKOFF
L0039037	20-Ca	40	γ, xn	19.98	16.8	4.5	29.50	100.	4.55	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	20-Ca	40	γ, xn	20.2	16.5	5.5				Yad.Fiz.5,1138(1967)	B.I.GORYACHEV
	20-Ca	40	γ, xn	20.	14.9	3.5	26.00	73.		J.Phisique,27,8(1966)	J.MILLER
L0039037	20-Ca	40	γ, sn	19.98	16.8	4.5	29.50	100.	4.55	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039037	20-Ca	40	γ, n	19.98	16.8	4.5	29.50	100.	4.55	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
M0397004	20-Ca	40	γ, n	20.26	20.41	5.	29.10	86.3	4.1	Yad.Fiz.2,1168(1968)	B.I.GORYACHEV
M0397004				19.24	14.86						
M0397004				21.25	13.97						
M0397004				23.34	12.34						
	20-Ca	40	γ, p	20.2	85.	4.	30.00	510.		Pisma ZHETF,5,225(1967)	B.I.GORYACHEV
				18.6	80.5						
	20-Ca	42	γ, p	19.7	50.5	7.5	27.00	256.		Nucl.Phys.A357,429(1981)	Y.I.ASSAFIRI

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
				20.2	40.5						
	20-Ca	44	γ, sn	17.2	46.8	10.5				Austr.J.Phys.34,505(1981)	P.D.HARTY
	20-Ca	44	γ, p	22.	14.	>12.				Nucl.Phys.A277,301(1977)	S.OIKAWA
	20-Ca	48	γ, n	18.8	114.5	7.				Nucl.Phys.A469,239(1987)	G.J.O'KEEFE
	20-Ca	48	$\gamma, 2n$	22.6	50.	2.				Nucl.Phys.A469,239(1987)	G.J.O'KEEFE
	20-Ca	48	γ, p	24.9	19.5					Nucl.Phys.A469,239(1987)	G.J.O'KEEFE
				19.2	9.5						
				24.9	19.5						
L0039040	21-Sc	45	γ, xn	19.44	39.4	8.	28.10	399.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	21-Sc	45	γ, xn	19.5	21.5	7.5	25.00	158.	8.4	Nucl.Phys.A205,139(1973)	R.H.SAMBELL
	21-Sc	45	γ, sn	19.44	39.4	8.	28.10	382.	19.6	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039038	21-Sc	45	γ, n	19.44	39.4	8.	28.10	365.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0039039	21-Sc	45	$\gamma, 2n$	25.4	3.9	>8.	28.10	17.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	21-Sc	45	γ, p	2.2	47.	>12.				Nucl.Phys.A277,301(1977)	S.OIKAWA
	22-Ti		γ, xn	17.	60.	7.				Nuov.Cim.48B,461(1967)	S.COSTA
	22-Ti	46	γ, sn	20.5	31.	8.5	31.00	269.		Nucl.Phys.29,292(1962)	T.R.SHERWOOD
M0370002	22-Ti	46	$\gamma, 1n$	15.8	24.13	8.5	25.00	194.	9.9	Nucl.Phys.A318,461(1979)	R.E.PYWELL
M0370002				18.	23.87						
	22-Ti	46	γ, p	2.2	37.	9.				Nucl.Phys.A277,301(1977)	S.OIKAWA
M0532002	22-Ti	48	γ, sn	16.1	48.55	7.5	27.00	398.	20.8	Nucl.Phys.A339,125(1980)	R.SUTTON
M0532002				17.5	46.36						
M0532002				19.5	43.64						
	22-Ti	50	γ, xn	18.1	81.	8.5				Nucl.Phys.A318,461(1979)	R.E.PYWELL
				21.5	60.						
	22-Ti	50	γ, sn	18.1	81.	5.2				Nucl.Phys.A318,461(1979)	R.E.PYWELL
M0326002	22-Ti	50	γ, sn	18.27	82.	5.5	26.30	472.6	26.	Nucl.Phys.A325,116(1979)	R.E.PYWELL
M0326002				21.56	41.8						
L0039043	23-V	51	γ, xn	18.08	76.7	11.	27.80	689.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	23-V	51	γ, xn	20.2	78.	8.	30.00	820.		Izv.AN SSSR,33,1736(1969)	B.I.GORYACHEV
	23-V	51	γ, xn	18.25	69.85	7.5	27.80	654.		Phys.Rev.128,2345(1962)	S.C.FULTZ
	23-V	51	γ, sn	18.08	76.7	10.	27.80	610.	31.2	Nucl.Phys.A227,513(1974)	A.VEYSSIERE
	23-V	51	γ, sn	20.2	78.	6.	30.00	600.		Izv.AN SSSR,33,1736(1969)	B.I.GORYACHEV
L0001002	23-V	51	γ, sn	18.251	69.85	6.5	27.80	552.	28.9	Phys.Rev.128,2345(1962)	S.C.FULTZ
L0039041	23-V	51	γ, n	18.08	76.7	10.	27.80	531.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0001003	23-V	51	γ, n	18.251	69.85	6.5	27.80	450.		Phys.Rev.128,2345(1962)	S.C.FULTZ
L0039042	23-V	51	$\gamma, 2n$	24.59	15.9	4.	27.80	79.		Nucl.Phys.A227,513(1974)	A.VEYSSIERE
L0001004	23-V	51	$\gamma, 2n$	25.319	22.16	5.	27.80	102.		Phys.Rev.128,2345(1962)	S.C.FULTZ
	23-V	51	γ, p	21.5	23.	>12.	29.00	205.		Nucl.Phys.A303,333(1978)	H.TSUBOTA
	24-Cr		γ, xn	17.8	88.	6.5				Austr.J.Phys.30,401(1977)	J.WEISE
M0093003	24-Cr	52	γ, xn	18.25	113.	6.5	31.80	734.6	36.6	Izv.AN SSSR,33,1736(1969)	B.I.GORYACHEV
M0093003				16.75	82.						
M0093003				19.25	104.						
M0067002	24-Cr	52	γ, p	20.2	32.8	4.	28.00	217.5	10.	Yad.Phys.11,485(1970)	B.S.ISHKHANOV
M0067002				15.9	8.2						
M0067002				18.7	14.3						
M0067002				26.2	22.4						
	25-Mn	55	γ, abs	17.5	100.	7.5	29.00	816.		Pisma ZHETF,10,365(1969)	B.S.DOLBILKIN
L0028002	25-Mn	55	γ, xn	20.64	71.87	12.5	36.50	902.		Phys.Rev.C20,128(1979)	R.A.ALVAREZ
L0028002				17.379	70.24						
	25-Mn	55	γ, xn	16.4	71.	11.	29.50	780.		Izv.AN SSSR,34,2228(1970)	B.S.ISHKHANOV
	25-Mn	55	γ, xn	16.8	90.	7.5	25.00	627.		Phys.Rev.120,1424(1960)	P.A.FLOURNOY
				19.75	77.						
L0028011	25-Mn	55	γ, sn	19.192	69.37	8.	36.50	733.	36.4	Phys.Rev.C20,128(1979)	R.A.ALVAREZ
L0028011				17.377	67.54						
L0028011				24.155	54.78						
	25-Mn	55	γ, sn	16.4	71.	11.	29.50	620.		Izv.AN SSSR,34,2228(1970)	B.S.ISHKHANOV
L0028003	25-Mn	55	γ, n	17.379	70.24	8.	36.50	567.		Phys.Rev.C20,128(1979)	R.A.ALVAREZ
L0028003				19.193	69.39						
L0028004	25-Mn	55	$\gamma, 2n$	22.699	22.81	7.	36.50	163.		Phys.Rev.C20,128(1979)	R.A.ALVAREZ
L0028005	25-Mn	55	$\gamma, 3n$	34.322	3.26		36.50	3.		Phys.Rev.C20,128(1979)	R.A.ALVAREZ
	25-Mn	55	γ, p	20.2	31.	7.				J.Phys.Soc.Jap.25,664(1968)	K.SHODA
	26-Fe		γ, abs	18.5	87.02	9.	26.50	735.		Yad.Fiz.9,675(1969)	B.S.DOLBILKIN
				12.2	79.						
	26-Fe		γ, xn	17.2	63.	7.				Nuov.Cim.51B,199(1967)	S.COSTA
M0507004	26-Fe	54	γ, abs	19.5	147.69	5.5	23.00	787.3	41.3	Austr.J.Phys.31,471(1978)	J.W.NORBURY
	26-Fe	54	γ, n	19.2	38.	6.9	31.00	290.		Austr.J.Phys.10,312(1957)	J.H.CARVER
M0273004	26-Fe	54	$\gamma, 1n$	19.	67.	7.	24.00	401.3	20.9	Can.J.Phys.29,518(1951)	L.KATZ
M0024002	26-Fe	54	γ, n	19.25	31.9	7.	26.50	215.8	10.6	Nucl.Phys.A285,71(1977)	B.S.RATNER
M0507002	26-Fe	54	$\gamma, 1n$	17.85	67.03	5.5	23.00	301.1	16.3	Austr.J.Phys.31,471(1978)	J.W.NORBURY
M0507002				19.64	55.17						
M0507003	26-Fe	54	γ, p	19.5	95.34	6.	23.00	487.3	25.2	Austr.J.Phys.31,471(1978)	J.W.NORBURY
	26-Fe	56	γ, p	20.	45.	5.				J.Phys.Soc.Jap.25,664(1968)	K.SHODA
	27-Co	59	γ, abs	18.6	92.	9.3	35.00	1030.	50.	Phys.Rev.137,B576(1965)	J.M.WYCKOFF
L0028006	27-Co	59	γ, xn	16.52	75.67	14.	36.50	965.		Phys.Rev.C20,128(1979)	R.A.ALVAREZ
L0028006				18.825	73.						
	27-Co	59	γ, xn	16.5	86.	7.5	30.00	1030.		Izv.AN SSSR,33,1736(1969)	B.I.GORYACHEV
				18.5	81.						
				20.5	76.						
	27-Co	59	γ, xn	17.5	69.	11.				Phys.Rev.128,2345(1962)	S.C.FULTZ
	27-Co	59	γ, xn	16.75	109.	6.	25.00	709.		Phys.Rev.120,1424(1960)	P.A.FLOURNOY
				18.75	92.						
M0541009	27-Co	59	γ, xn	16.5	72.	6.	28.00	657.		Nucl.Phys.67,178(1965)	G.BACIU
				19.	74.						
L0028008	27-Co	59	γ, n	16.52	75.67	7.	36.50	653.		Phys.Rev.C20,128(1979)	R.A.ALVAREZ
L0028008				18.825	73.04						
L0001006	27-Co	59	γ, n	17.64	68.5	6.	28.00	447.		Phys.Rev.128,2345(1962)	S.C.FULTZ
L0028009	27-Co	59	$\gamma, 2n$	22.209	19.16	7.	36.50	150.		Phys.Rev.C20,128(1979)	R.A.ALVAREZ
L0028009				26.574	13.31						
L0001007	27-Co	59	$\gamma, 2n$	25.93	24.2	7.	28.00	139.		Phys.Rev.128,2345(1962)	S.C.FULTZ
L0001007				22.86	22.						
	27-Co	59	$\gamma, 2n$	20.5	19.5	7.5				Nucl.Phys.67,178(1965)	G.BACIU
				25.5	19.						
L0028010	27-Co	59	$\gamma, 3n$	36.136	4.52	>2.	36.50	4.		Phys.Rev.C20,128(1979)	R.A.ALVAREZ
	27-Co	59	γ, p	20.5	26.	>12.	29.00	353.		Nucl.Phys.A303,333(1978)	H.TSUBOTA
	28-Ni		γ, abs	18.7	89.	7.5	35.00	920.	44.	Phys.Rev.137,B576(1965)	J.M.WYCKOFF
	28-Ni		γ, xn	16.8	42.5	6.5	24.00	283.		Phys.Rev.L.21,1200(1968)	K.MIN
	28-Ni		γ, xn	17.8	43.	6.5				Nuov.Cim.54B,344(1968)	S.COSTA
	28-Ni		γ, xn	16.5	46.	5.	24.00	276.		Nucl.Phys.67,178(1965)	G.BACIU
							28.00	313.			
	27-Co	59	γ, sn	16.52	75.67	7.	36.50	807.	40.1	Phys.Rev.C20,128(1979)	R.A.ALVAREZ

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
	27-Co	59	γ, sn	16.5	86.	7.5	30.00	740.		Izv.AN SSSR,33,1736(1969)	B.I.GORYACHEV
				18.5	81.						
				20.5	55.						
	27-Co	59	γ, sn	17.6	69.	7.5	28.00	586.		Phys.Rev.128,2345(1962)	S.C.FULTZ
	28-Ni		$\gamma, 2n$	23.	5.6	5.				Nucl.Phys.67,178(1965)	G.BACIU
	28-Ni	58	γ, xn	17.3	26.7	8.	33.50	294.		Phys.Rev.C10,608(1974)	S.C.FULTZ
	28-Ni	58	γ, xn	20.3	31.	7.	30.00	310.		Yad.Fiz.10,252(1969)	B.S.ISHKHANOV
				17.8	23.5						
	28-Ni	58	γ, xn	16.7	26.	6.	24.00	185.		Phys.Rev.L.21,1200(1968)	K.MIN
L0034002	28-Ni	58	γ, sn	17.298	26.7	8.	33.50	286.	13.8	Phys.Rev.C10,608(1974)	S.C.FULTZ
L0034002				22.623	23.16						
L0034003	28-Ni	58	γ, n	17.29	26.7	8.	33.50	278.		Phys.Rev.C10,608(1974)	S.C.FULTZ
L0034003				22.623	23.3						
M0273005	28-Ni	58	γ, n	19.	54.	6.	22.00	316.	18.	Can.J.Phys.29,518(1951)	L.KATZ
	28-Ni	58	γ, np	19.5	125.	4.8	32.00	840.		Proc.Phys.Soc.73,585(1959)	J.H.CARVER
L0034004	28-Ni	58	$\gamma, 2n$	24.56	1.9	8.	33.50	7.7		Phys.Rev.C10,608(1974)	S.C.FULTZ
L0034004				29.522	1.51						
	28-Ni	58	γ, p	18.5	60.	9.5	30.00	570.		Yad.Fiz.11,485(1970)	B.S.ISHKHANOV
				16.6	48.5						
				23.3	46.5						
L0034005	28-Ni	60	γ, xn	16.33	74.94	11.	33.20	772.		Phys.Rev.C10,608(1974)	S.C.FULTZ
	28-Ni	60	γ, xn	19.1	91.	6.5	30.00	620.		Yad.Fiz.10,252(1969)	B.S.ISHKHANOV
				16.3	73.5						
				17.5	80.5						
				20.6	63.5						
	28-Ni	60	γ, xn	16.8	82.	5.5	24.00	482.		Phys.Rev.L.21,1200(1968)	K.MIN
L0034008	28-Ni	60	γ, sn	16.33	74.95	7.	33.20	700.	35.4	Phys.Rev.C10,608(1974)	S.C.FULTZ
L0034006	28-Ni	60	γ, n	16.33	74.95	7.	33.20	628.		Phys.Rev.C10,608(1974)	S.C.FULTZ
	28-Ni	60	γ, np	19.	90.	5.5	30.00	940.		Yad.Fiz.11,485(1970)	B.S.ISHKHANOV
L0034007	28-Ni	60	$\gamma, 2n$	24.318	10.88	7.	33.20	72.		Phys.Rev.C10,608(1974)	S.C.FULTZ
L0034007				28.312	8.71						
L0034007				31.338	5.49						
	28-Ni	60	γ, p	18.4	34.	8.5	30.00	320.		Yad.Fiz.11,485(1970)	B.S.ISHKHANOV
				16.4	26.						
				2O.3	31.5						
				23.3	30.						
	29-Cu		γ, abs	17.5	94.	11.5	35.00	1036.	51.	Phys.Rev.137,B576(1965)	J.M.WYCKOFF
	29-Cu		γ, xn	17.8	116.79	13.5	30.00	1200.		Vestn.Mosk.Uni.6,606(1970)	B.S.ISHKHANOV
				16.1	114.72						
				21.4	109.51						
				23.8	105.07						
				25.2	102.15						
				27.4	78.14						
	29-Cu		γ, xn	17.7	86.	7.5	20.00	451.		Nucl.Phys.67,178(1965)	G.BACIU
							28.00	733.			
	29-Cu		γ, xn	17.2	78.	8.	24.00	587.		J.Phys.Soc.Jap.25,655(1968)	T.TOMIMASU
L0006002	29-Cu		γ, xn	17.022	71.4	11.	27.80	710.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
	29-Cu		γ, xn	16.1	90.3	>7.	19.60	450.		Nucl.Phys.32,236(1962)	J.MILLER
L0006011	29-Cu		γ, sn	17.022	71.4	8.	27.80	604.	33.8	Phys.Rev.B133,1149(1964)	S.C.FULTZ
	29-Cu		γ, sn	17.8	116.79	8.5				Vestn.Mosk.Uni.6,606(1970)	B.S.ISHKHANOV
				16.1	114.72						
				18.8	105.39						
				24.	53.49						
L0006003	29-Cu		γ, n	17.022	71.4	7.	27.80	498.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
	29-Cu		γ, n	16.1	114.72	6.5	30.00	624.		Vestn.Mosk.Uni.6,606(1970)	B.S.ISHKHANOV
				21.	59.						
				23.5	12.						
	29-Cu		$\gamma, 2n$	25.5	44.57	8.5	30.00	288.		Vestn.Mosk.Uni.6,606(1970)	B.S.ISHKHANOV
	29-Cu		$\gamma, 2n$	23.	15.5	7.5				Nucl.Phys.67,178(1965)	G.BACIU
L0006004	29-Cu		$\gamma, 2n$	23.168	16.6	8.	27.80	106.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
	29-Cu		γ, p	18.2	23.	>9.				Phys.Rev.119,748(1960)	R.E.CHRIEN
L0006005	29-Cu	63	γ, xn	16.407	69.6	10.5	27.80	680.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0006005				22.86	54.3						
	29-Cu	63	γ, sn	16.6	78.6					Yad.Fiz.58,387(1995)	V.V.VARLAMOV
				23.3	34.						
	29-Cu	63	γ, sn	16.5	63.	5.	28.00	764.	38.	Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0006012	29-Cu	63	γ, sn	16.407	69.6	10.	27.80	604.	33.4	Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0006012				22.86	41.5						
M0385002	29-Cu	63	γ, n	16.6	78.6	6.	25.00	510.3	30.	Yad.Fiz.58,387(1995)	V.V.VARLAMOV
L0006006	29-Cu	63	γ, n	16.407	68.5	8.	27.80	528.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0006006				22.246	30.4						
L0006006				26.241	14.6						
M0273006	29-Cu	63	γ, n	18.	104.	6.	21.00	618.5	36.7	Can.J.Phys.29,518(1951)	L.KATZ
M0239004	29-Cu	63	γ, n	17.8	70.3	5.5	24.20	482.4	27.8	Yad.Phys.30,294(1979)	L.Z.DZHILAVYAN
M0385003	29-Cu	63	γ, np	23.5	17.5	5.	25.00	75.9	3.5	Yad.Fiz.58,387(1995)	V.V.VARLAMOV
M0026002	29-Cu	63	$\gamma, 1n$	17.77	69.15	6.5	24.30	484.5	27.9	Yad.Fiz.30,294(1979)	L.Z.DZHILAVYAN
	29-Cu	63	$\gamma, 1n$	16.7	92.	6.5				Nucl.Phys.A181,477(1972)	F.DREYER
L0013002	29-Cu	63	$\gamma, 1n$	16.79	78.	6.5	25.10	498.		Phys.Rev.176,1366(1968)	R.E.SUND
L0006007	29-Cu	63	$\gamma, 2n$	25.011	13.6	6.5	27.80	76.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0013003	29-Cu	63	$\gamma, 2n$	23.7	10.	6.5	25.10	43.		Phys.Rev.176,1366(1968)	R.E.SUND
M0385004	29-Cu	63	γ, p	20.	34.2	6.	25.00	224.2	12.1	Yad.Fiz.58,387(1995)	V.V.VARLAMOV
L0006008	29-Cu	65	γ, xn	16.714	77.4	10.	27.80	817.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0006008				19.787	76.3						
	29-Cu	65	γ, sn	16.8	88.	5.	28.00	766.	53.	Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0006013	29-Cu	65	γ, sn	16.714	77.4	8.	27.80	619.	36.	Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0006009	29-Cu	65	γ, n	16.714	77.5	5.	27.80	421.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
M0273007	29-Cu	65	γ, n	18.	150.	6.5	22.00	1045.	61.9	Can.J.Phys.29,518(1951)	L.KATZ
M0450002	29-Cu	65	γ, n	17.	96.	5.	30.00	530.	30.	Phys.Rev.96,83(1954)	A.I.BERMAN
M0374006	29-Cu	65	γ, np	21.2	10.6	3.	24.40	26.5	1.3	Izv.RAN,54,222(1995)	V.V.VARLAMOV
L0006010	29-Cu	65	$\gamma, 2n$	22.246	30.4	7.	27.80	198.		Phys.Rev.B133,1149(1964)	S.C.FULTZ
L0006010				20.095	29.1						
M0450003	29-Cu	65	$\gamma, 2n$	25.	12.2	4.5	35.00	81.	3.1	Phys.Rev.96,83(1954)	A.I.BERMAN
M0374008	29-Cu	65	γ, p	25.	16.4	7.	28.00	126.6	5.8	Izv.RAN,54,222(1995)	V.V.VARLAMOV
M0374008				20.	11.4						
M0374008				22.2	12.3						
M0037408				27.6	10.8						
	29-Cu	65	γ, p	19.8	30.5	7.				ZHETF,38,780(1960)	N.V.LIN'KOVA
	30-Zn		γ, sn	16.7	91.	4.6	80.00	1607.	66.	Nuov.Cim.48B,461(1967)	S.COSTA
L0043004	30-Zn	64	γ, xn	16.73	71.8	14.	29.50	791.		Nucl.Phys.A258,365(1976)	P.CARLOS

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
L0043004				18.9	71.3						
	30-Zn	64	γ, xn	16.2	52.	9.5				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
				19.	49.						
	30-Zn	64	γ, xn	15.9	90.5	8.5.	27.00	800.		Yad.Fiz.20,433(1974)	B.S.ISHKHANOV
				18.	90.						
				20.2	76.						
	30-Zn	64	γ, sn	16.73	71.8	13.	29.50	750.	38.1	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043002	30-Zn	64	γ, n	16.73	71.8	13.	29.50	703.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043002				18.9	70.7						
	30-Zn	64	γ, n	17.2	48.	7.	23.00	330.		Can.J.Phys.38,320(1960)	J.P.ROALSVIG
M0273008	30-Zn	64	γ, n	18.	123.	8.	23.00	93.	53.9	Can.J.Phys.29,518(1951)	L.KATZ
M0070002	30-Zn	64	γ, n	16.42	49.5	8.5	24.20	381.2	21.4	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0070002				19.02	44.2						
M0070002				22.42	33.1						
L0043003	30-Zn	64	$\gamma, 2n$	24.86	7.2	10.	29.50	44.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043003				22.96	6.5						
L0043003				28.11	6.4						
	30-Zn	66	γ, xn	16.2	80.	9.5				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
				18.	61.						
M0070003	30-Zn	66	γ, n	16.42	76.6	7.	24.20	573.3	33.	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0042002	30-Zn	67	γ, n	16.62	93.9	7.	24.20	755.8	44.1	Izv.KAZSSR,6,16(1980)	A.M.GORYACHEV
M0070004	30-Zn	67	γ, n	17.02	93.7	6.5	24.40	755.8	44.1	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
	30-Zn	67	γ, p	22.	18.	8.	28.00	118.		Pisma ZHETF,11,452(1966)	V.G.IVANCHENKO
	30-Zn	68	γ, xn	16.2	92.	9.5				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
	30-Zn	68	γ, xn	16.	150.	9.	27.00	1630.		Yad.Fiz.20,433(1974)	B.S.ISHKHANOV
				18.	117.						
				20.2	107.						
M0070005	30-Zn	68	γ, n	17.22	91.2	7.5	24.20	732.	42.6	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0042003	30-Zn	70	γ, n	17.25	97.7	7.	24.40	828.5	48.6	Izv.KAZSSR,6,16(1980)	A.M.GORYACHEV
M0070006	30-Zn	70	γ, n	17.25	97.7	7.	24.40	828.5	48.6	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
L0043007	31-Ga		γ, xn	16.97	113.4	11.	26.50	1108.		Nucl.Phys.A258,365(1976)	P.CARLOS
	31-Ga		γ, xn	16.5	115.	8.	28.00	947.		Nucl.Phys.67,178(1965)	G.BACIU
	31-Ga		γ, sn	16.97	115.4	8.	26.50	910.	52.	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043005	31-Ga		γ, n	16.97	115.1	5.5	26.50	716.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043006	31-Ga		$\gamma, 2n$	20.49	33.1	7.5	26.50	196.		Nucl.Phys.A258,365(1976)	P.CARLOS
	32-Ge		γ, xn	17.5	158.		80.00	2495.	102.	Phys.Lett.10,324(1964)	S.COSTA
L0043010	32-Ge	70	γ, xn	15.89	91.6	10.	26.50	856.		Nucl.Phys.A258,365(1976)	P.CARLOS
	32-Ge	70	γ, xn	16.	92.	9.5				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
	32-Ge	70	γ, sn	15.89	91.6	8.	26.50	780.	43.2	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043008	32-Ge	70	γ, n	15.89	91.6	7.5	26.50	687.		Nucl.Phys.A258,365(1976)	P.CARLOS
	32-Ge	70	γ, n	17.5	158.	8.6				Nucl.Phys.15,436(1960)	F.FERRERO
M0070007	32-Ge	70	γ, n	15.82	90.1	7.5	24.20	717.8	41.4	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0070007				20.02	72.						
M0497003	32-Ge	70	γ, np	29.	7.	6.	42.00	46.9	1.6	Nucl.Phys.A213,371(1973)	J.J.MCCARTHY
M0497002	32-Ge	70	γ, p	24.	8.3	6.	40.00	92.	3.9	Nucl.Phys.A213,371(1973)	J.J.MCCARTHY
L0043009	32-Ge	70	$\gamma, 2n$	22.66	21.3	6.5	26.50	84.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043009				24.02	18.8						
L0043009				25.64	15.4						
L0043013	32-Ge	72	γ, xn	16.16	111.3	13.	26.50	1133.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043013				19.41	97.7						
L0043013				21.58	97.6						
	32-Ge	72	γ, xn	16.6	90.	9.5				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
	32-Ge	72	γ, sn	16.16	111.3	10.	26.50	940.	53.5	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043011	32-Ge	72	γ, n	16.16	111.3	7.5	26.50	737.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043011				21.85	32.4						
M0070008	32-Ge	72	γ, n	16.2	89.8	8.	24.20	732.5	43.9	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0070008				22.22	58.						
M0497004	32-Ge	72	γ, np	22.	5.6	5.5	40.00	38.9	1.6	Nucl.Phys.A213,371(1973)	J.J.MCCARTHY
L0043012	32-Ge	72	$\gamma, 2n$	21.04	36.7	7.	26.50	198.		Nucl.Phys.A258,365(1976)	P.CARLOS
M0042004	32-Ge	73	γ, n	17.02	92.3	8.	24.40	785.9	46.3	Izv.KAZSSR,6,16(1980)	A.M.GORYACHEV
M0070009	32-Ge	73	γ, n	17.02	92.3	8.	24.40	785.9	46.3	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
L0043016	32-Ge	74	γ, xn	19.41	128.1	13.	26.50	1322.		Nucl.Phys.A258,365(1976)	P.CARLOS
	32-Ge	74	γ, xn	16.2	115.	9.5				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
	32-Ge	74	γ, sn	16.7	109.8	8.5	26.50	1020.	58.8	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043014	32-Ge	74	γ, n	16.7	109.8	6.	26.50	704.		Nucl.Phys.A258,365(1976)	P.CARLOS
M0070010	32-Ge	74	γ, n	16.02	101.4	9.	24.20	899.8	53.	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0070010				22.62	72.3						
L0043015	32-Ge	74	$\gamma, 2n$	20.49	49.	7.5	26.50	309.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043019	32-Ge	76	γ, xn	18.33	146.1	11	26.50	1487.		Nucl.Phys.A258,365(1976)	P.CARLOS
	32-Ge	76	γ, sn	15.34	110.3	10.	26.50	1120.	63.8	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043017	32-Ge	76	γ, n	15.34	110.3	5.	26.50	733.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043017				25.64	25.4						
M0070011	32-Ge	76	γ, n	16.02	109.1	7.5	24.20	934.8	55.2	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0070011				22.42	74.9						
M0497005	32-Ge	76	γ, np	34.	2.2	8.5	39.00	20.	.6	Nucl.Phys.A213,371(1973)	J.J.MCCARTHY
L0043018	32-Ge	76	$\gamma, 2n$	19.95	52.9	8.	26.50	377.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043022	33-As	75	γ, xn	16.16	119.9	13.	26.20	1306.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043022				19.41	115.						
L0014002	33-As	75	γ, xn	16.22	97.27	11.	29.50	1130.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0014002				19.937	87.21						
	33-As	75	γ, xn	17.3	90.3	9.	23.00	800.		Phys.Rev.104,1334(1956)	P.F.YERGIN
	33-As	75	γ, sn	16.16	119.9	10.	26.20	1090.	62.7	Nucl.Phys.A258,365(1976)	P.CARLOS
L0014012	33-As	75	γ, sn	16.22	97.27	8.	29.50	909.	51.4	Phys.Rev.177,1745(1969)	B.L.BERMAN
L0043020	33-As	75	γ, n	16.16	119.9	6.5	26.20	872.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0014003	33-As	75	γ, n	16.22	97.18	6.5	29.50	688.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0014003				27.989	17.38						
L0043021	33-As	75	$\gamma, 2n$	21.58	40.6	7.	26.20	217.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043021				25.37	27.2						
L0014004	33-As	75	$\gamma, 2n$	21.485	32.65	7.5	29.50	221.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0014004				21.556	31.39						
L0014004				26.44	19.32						
	34-Se		γ, xn	15.5	118.	5.2				Nuov.Cim.51B,199(1967)	S.COSTA
M0042005	34-Se	74	γ, n	15.71	89.	6.	24.20	639.2	37.	Izv.KAZSSR,6,16(1980)	A.M.GORYACHEV
M0070012	34-Se	74	γ, n	15.71	89.	6.5	24.40	639.2	37.	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0023002	34-Se	76	γ, abs	16.05	164.	5.9	19.70	922.1	60.8	Probl.Yad.Fiz.8,106(1978)	G.M.GUREVICH
M0023002				12.5	75.5						
M0023002				15.1	155.5						
L0043025	34-Se	76	γ, xn	15.34	108.2	12.5	26.50	1177.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043025				20.76	96.4						
	34-Se	76	γ, xn	15.9	109.	9.				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
	34-Se	76	γ, sn	15.34	108.2	10.5	26.50	1010.	57.	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043023	34-Se	76	γ, n	15.34	108.2	7.5	26.50	815.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043023				17.51	105.8						
M0070013	34-Se	76	γ, n	15.42	108.1	8.5	24.2	938.4	54.9	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0070013				21.82	68.						
L0043024	34-Se	76	$\gamma, 2n$	21.58	35.7	6.5	26.50	181.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043024				24.56	31.2						
M0042006	34-Se	77	γ, n	15.82	105.3	8.5	24.40	944.9	56.3	Izv.KAZSSR,6,16(1980)	A.M.GORYACHEV
M0070014	34-Se	77	γ, n	15.82	105.3	8.5	24.40	944.7	56.3	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
L0043028	34-Se	78	γ, xn	15.62	126.3	10.	26.50	1322.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043028				19.41	125.5						
	34-Se	78	γ, xn	16.2	132.	9.				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
	34-Se	78	γ, sn	15.62	126.3	8.	26.50	1060.	61.4	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043026	34-Se	78	γ, n	15.62	126.3	5.5	26.50	778.		Nucl.Phys.A258,365(1976)	P.CARLOS
M0070015	34-Se	78	γ, n	15.82	126.	8.5	24.20	1033.4	61.	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
L0043027	34-Se	78	$\gamma, 2n$	21.58	47.5	7.5	26.50	272.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043031	34-Se	80	γ, xn	18.6	155.11	11.	28.10	1527.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043031				16.43	140.8						
	34-Se	80	γ, xn	16.7	142.	9.				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
	34-Se	80	γ, sn	15.89	137.	7.5	28.10	1110.	65.9	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043029	34-Se	80	γ, n	15.89	137.	6.	28.10	749.		Nucl.Phys.A258,365(1976)	P.CARLOS
M0070016	34-Se	80	γ, n	17.02	138.1	8.	24.20	1045.9	61.9	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0070016				15.62	132.9						
L0043030	34-Se	80	$\gamma, 2n$	20.22	60.6	5.5	28.10	389.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043030	34-Se	80	$\gamma, 2n$	19.14	54.3	5.5	28.10	389.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043030				21.04	52.8						
M0023003	34-Se	82	γ, abs	15.9	195.	5.1	19.90	1049.2	68.5	Probl.Yad.Fiz.8,106(1978)	G.M.GUREVICH
M0023003				12.	66.5						
L0043034	34-Se	82	γ, xn	18.05	190.9	7.	26.50	1521.		Nucl.Phys.A258,365(1976)	P.CARLOS
	34-Se	82	γ, xn	16.	152.	9.				Izv.AN SSSR,39,134(1975)	A.M.GORYACHEV
	34-Se	82	γ, sn	15.89	142.7	6.5	26.50	1130.	66.4	Nucl.Phys.A258,365(1976)	P.CARLOS
L0043032	34-Se	82	γ, n	15.89	142.7	4.	26.50	727.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0043032				23.47	17.8						
M0070017	34-Se	82	γ, n	16.22	151.8	8.	24.20	1087.7	64.7	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
M0070017				22.62	67.						
L0043033	34-Se	82	$\gamma, 2n$	18.87	62.6	6.	26.50	397.		Nucl.Phys.A258,365(1976)	P.CARLOS
L0027002	37-Rb		γ, xn	16.805	194.	4.5	24.30	1242.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027017	37-Rb		γ, sn	16.805	194.	4.5	24.30	1147.	67.1	Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027003	37-Rb		γ, n	16.805	194.	4.5	24.30	1052.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027004	37-Rb		$\gamma, 2n$	22.117	26.	>5.	24.30	95.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
	38-Sr		γ, xn	16.8	170.	9.				Nucl.Phys.A159,265(1970)	R.S.HICKS
L0027005	38-Sr		γ, xn	16.669	210.	7.	27.00	1553.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027018	38-Sr		γ, sn	16.669	210.	5.5	27.00	1432.	80.3	Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027006	38-Sr		γ, n	16.669	210.	5.5	27.00	1311.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027007	38-Sr		$\gamma, 2n$	25.113	24.	5.5	27.00	121.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027007				22.525	21.						
M0070018	38-Sr	84	γ, n	16.71	156.8	7.	24.40	1010.3	58.	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
	38-Sr	86	γ, xn	15.9	160.	5.	23.00	920.		Phys.Rev.104,1334(1956)	P.F.YERGIN
M0070019	38-Sr	86	γ, n	16.56	179.4	6.	24.40	1038.3	60.3	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
	38-Sr	87	γ, xn	15.8	146.	5.3	23.00	1000.		Phys.Rev.104,1334(1956)	P.F.YERGIN
M0070020	38-Sr	87	γ, n	16.75	195.8	4.5	24.40	1114.2	65.6	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
	38-Sr	88	γ, xn	16.3	201.	4.	23.00	1050.		Phys.Rev.104,1334(1956)	P.F.YERGIN
M0070021	38-Sr	88	γ, n	16.85	207.	5.	24.40	1112.8	64.7	Vop.Teor.Y.Fiz.8,121(1982)	A.M.GORYACHEV
L0027008	39-Y	89	γ, xn	16.669	225.	4.5	27.00	1427.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
M0164002	39-Y	89	γ, xn	16.4	271.	3.7	30.00	1504.7	83.5	Izv.AN SSSR,34,2232(1970)	B.S.ISHKHANOV
M0164002				15.6	239.						
M0164002				17.	215.						
L0011002	39-Y	89	γ, xn	16.685	184.5	4.5	28.00	1158.		Phys.Rev.162,1098(1967)	B.L.BERMAN
	39-Y	89	γ, xn	16.3	191.	4.	23.00	870.		Phys.Rev.104,1334(1956)	P.F.YERGIN
L0027019	39-Y	89	γ, sn	16.669	225.	4.5	27.00	1360.	76.5	Nucl.Phys.A175,609(1971)	A.LEPRETRE
	39-Y	89	γ, sn	16.	270.	3.7	29.00	1360.		Izv.AN SSSR,34,2232(1970)	B.S.ISHKHANOV
L0011018	39-Y	89	γ, sn	16.69	184.4	4.5	28.00	1059.	59.8	Phys.Rev.162,1098(1967)	B.L.BERMAN
L0027009	39-Y	89	γ, n	16.669	225.	4.5	27.00	1279.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0011003	39-Y	89	γ, n	16.685	184.3	4.5	28.00	960.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0059002	39-Y	89	$\gamma, 1n$	17.118	211.31	4.	18.10	641.	40.	T,YOUNG,72	L.M.YOUNG
L0027010	39-Y	89	$\gamma, 2n$	25.386	18.3	>8.	27.00	74.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0011004	39-Y	89	$\gamma, 2n$	23.344	19.38		28.00	99.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011004				25.821	19.68						
	40-Zr		γ, xn	16.851	190.29	4.4	19.70	1079.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0057004	40-Zr		γ, sn	16.851	190.29	4.4	19.70	991.	68.	Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0057002	40-Zr		γ, n	16.373	158.92	>4.	19.70	903.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0057003	40-Zr		$\gamma, 2n$	17.329	26.92	>5.	19.70	88.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
	40-Zr	90	γ, xn	16.5	205.	4.5				Nucl.Phys.A204,209(1973)	H.J.ASKIN
	40-Zr	90	γ, xn	16.	200.	3.7	28.00	950.		Yad.Fiz.14,27(1971)	B.S.ISHKHANOV
L0027011	40-Zr	90	γ, xn	16.669	215.	4.5	25.90	1309.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
	40-Zr	90	γ, xn	16.5	175.	4.	22.50	1270.		Izv.AN SSSR,33,700(1969)	G.P.ANTROPOV
L0011005	40-Zr	90	γ, xn	16.724	180.	4.5	27.60	1158.		Phys.Rev.162,1098(1967)	B.L.BERMAN
	40-Zr	90	γ, xn	15.8	199.	4.5	23.00	980.		Phys.Rev.104,1334(1956)	P.F.YERGIN
	40-Zr	90	γ, sn	16.	200.	3.7	28.00	930.		Yad.Fiz.14,27(1971)	B.S.ISHKHANOV
	40-Zr	90	γ, sn	16.67	215.	4.5	25.90	1260.	70.8	Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0011019	40-Zr	90	γ, sn	16.724	180.	4.5	27.60	1060.	59.1	Phys.Rev.162,1098(1967)	B.L.BERMAN
L0027012	40-Zr	90	γ, n	16.669	215.	4.5	25.90	1211.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0011006	40-Zr	90	γ, n	16.724	180.	4.5	27.60	962.		Phys.Rev.162,1098(1967)	B.L.BERMAN
	40-Zr	90	$\gamma, 2n$	25.5	17.5	>8.				Phys.Rev.C13,1852(1976)	D.BRAJNIK
L0027013	40-Zr	90	$\gamma, 2n$	24.568	19.	>8.	25.90	49.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027013				23.751	18.						
L0011007	40-Zr	90	$\gamma, 2n$	25.124	22.6	>8.	27.60	98.		Phys.Rev.162,1098(1967)	B.L.BERMAN
M0125002	40-Zr	90	γ, p	21.5	30.	6.	30.50	159.1.	7.2	Phys.Lett.10,310(1964)	I.I.DUSHKOV
	40-Zr	90	γ, p	16.3	35.5	7.5				Phys.Rev.C13,1852(1976)	D.BRAJNIK
				20.3	33.3						
	40-Zr	91	γ, xn	16.	200.	4.2	22.50	1420.		Izv.AN SSSR,33,700(1969)	G.P.ANTROPOV
L0011008	40-Zr	91	γ, xn	16.84	188.29	4.5	30.00	1303.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011008				21.021	85.31						
	40-Zr	91	γ, xn	16.5	200.	5.	23.00	1220.		Phys.Rev.104,1334(1956)	P.F.YERGIN
L0011020	40-Zr	91	γ, sn	16.84	188.25	4.5	30.00	1103.	65.4	Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011009	40-Zr	91	γ, n	16.84	188.21	4.5	30.00	903.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011010	40-Zr	91	$\gamma, 2n$	21.65	30.4	9.	30.00	200.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011010				23.37	25.75						
L0011010				24.88	24.3						
L0011011	40-Zr	92	γ, xn	17.459	207.5	6.5	27.80	1543.		Phys.Rev.162,1098(1967)	B.L.BERMAN

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
	40-Zr	92	γ, xn	16.9	193.	5.5	23.00	1240.		Phys.Rev.104,1334(1956)	P.F.YERGIN
L0011021	40-Zr	92	γ, sn	154.911	177.24	6.5	27.80	1091.	64.2	Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011012	40-Zr	92	γ, n	15.911	169.	4.	27.80	639.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011013	40-Zr	92	$\gamma, 2n$	17.924	69.74	6.	27.80	452.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011013				21.021	58.11						
L0011013				23.576	28.14						
L0011014	40-Zr	94	γ, xn	16.99	244.5	5.	31.10	1767.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011022	40-Zr	94	γ, sn	16.69	167.	5.	31.10	1121.	68.5	Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011015	40-Zr	94	γ, n	15.15	135.9	3.5	31.10	508.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011016	40-Zr	94	$\gamma, 2n$	17.775	101.75	5.	31.10	578.1	29.7	Phys.Rev.162,1098(1967)	B.L.BERMAN
L0011016				23.04	40.5						
L0011016				25.6	32.7						
L0011017	40-Zr	94	$\gamma, 3n$	28.3	12.9	4.5	31.10	33.		Phys.Rev.162,1098(1967)	B.L.BERMAN
L0027014	41-NB	93	γ, xn	17.622	207.	8.	24.30	1610.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
	41-NB	93	γ, xn	17.	195.	6.5	23.00	1460.		Phys.Rev.104,1334(1956)	P.F.YERGIN
	41-NB	93	γ, sn	16.26	200.	6.5	24.30	1331.	78.5	Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027015	41-NB	93	γ, n	16.26	200.	4.	24.30	1052.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
L0027016	41-NB	93	$\gamma, 2n$	20.21	52.	6.5	24.30	279.		Nucl.Phys.A175,609(1971)	A.LEPRETRE
M0126002				23.03	26.						
M0126002				19.65	24.56						
M0126002				21.42	20.48						
M0126002				26.59	12.48						
L0032002	42-Mo	92	γ, xn	16.73	163.8	6.	29.50	1109.		Nucl.Phys.A227,427(1974)	H.BEIL
	42-Mo	92	γ, xn	16.4	170.	5.	30.00	1290.		Yad.Fiz.11,702(1970)	B.S.ISHKHANOV
L0032020	42-Mo	92	γ, sn	16.73	163.8	6.	29.50	1079.	57.4	Nucl.Phys.A227,427(1974)	H.BEIL
L0032003	42-Mo	92	γ, n	16.73	163.8	6.	29.50	1049.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032004	42-Mo	92	$\gamma, 2n$	25.67	8.2	>9.	29.50	30.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032021	42-Mo	94	γ, xn	16.19	187.2	8.	28.40	1665.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032005	42-Mo	94	γ, sn	16.19	189.5	6.5	28.40	1352.	78.3	Nucl.Phys.A227,427(1974)	H.BEIL
L0032006	42-Mo	94	γ, n	16.19	184.9	6.5	28.40	1039.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032007	42-Mo	94	$\gamma, 2n$	19.98	49.9	10.	28.40	313.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032008	42-Mo	96	γ, xn	16.46	193.7	10.	27.80	1921.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032022	42-Mo	96	γ, sn	16.46	192.1	6.5	27.80	1483.	87.6	Nucl.Phys.A227,427(1974)	H.BEIL
L0032009	42-Mo	96	γ, n	16.46	190.6	5.	27.80	1045.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032010	42-Mo	96	$\gamma, 2n$	19.17	67.9	6.5	27.80	438.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032011	42-Mo	96	$\gamma, 3n$	29.19	12.9		29.20	3.4		Nucl.Phys.A227,427(1974)	H.BEIL
L0032012	42-Mo	98	γ, xn	17.	235.4	8.	26.80	2100.		Nucl.Phys.A227,427(1974)	H.BEIL
	42-Mo	98	γ, xn	16.8	280.	5.	30.00	2000.		Yad.Fiz.11,702(1970)	B.S.ISHKHANOV
L0032023	42-Mo	98	γ, sn	15.37	195.8	7.	26.80	1518.	92.1	Nucl.Phys.A227,427(1974)	H.BEIL
L0032013	42-Mo	98	γ, n	15.37	194.7	5.	26.80	940.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032014	42-Mo	98	$\gamma, 2n$	19.17	86.	8.	26.80	574.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032015	42-Mo	98	$\gamma, 3n$	28.11	13.3	>5.	26.80	4.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032015							28.90	22.			
L0032016	42-Mo	100	γ, xn	16.19	261.	8.	27.00	2270.		Nucl.Phys.A227,427(1974)	H.BEIL
	42-Mo	100	γ, sn	15.7	171.	7.5	27.00	1528.	93.6	Nucl.Phys.A227,427(1974)	H.BEIL
L0032017	42-Mo	100	γ, n	14.29	163.4	4.	27.00	811.		Nucl.Phys.A227,427(1974)	H.BEIL
	42-Mo	100	γ, nP	15.	180.	5.6	20.00	1110.		Nucl.Phys.60,343(1964)	R.W.GELLIE
L0032018	42-Mo	100	$\gamma, 2n$	18.08	104.8	6.5	27.00	692.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032019	42-Mo	100	$\gamma, 3n$	28.38	22.5	>7.	27.00	25.		Nucl.Phys.A227,427(1974)	H.BEIL
L0032019				25.94	13.16						
L0032019				27.3	20.3						
L0035002	45-Rh	103	γ, xn	18.08	199.3	10.	25.80	1948.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035002				15.64	190.						
	45-Rh	103	γ, xn	16.5	205.	9.	23.00	1940.		Phys.Rev.104,1334(1956)	P.F.YERGIN
L0035041	45-Rh	103	γ, sn	15.64	190.9	8.	30.10	1568.	94.7	Nucl.Phys.A219,39(1974)	A.LEPRETRE
	45-Rh	103	γ, sn	17.5	280.	6.	22.00	2130.	123.	ZHETF,42,1502(1962)	BOGDANKEVICH
				14.8	200.						
L0035003	45-Rh	103	γ, n	15.64	190.	5.5	25.80	1188.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035004	45-Rh	103	$\gamma, 2n$	19.44	66.	8.	25.80	380.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
	45-Rh	103	γ, p	19.	8.	5.5	32.00	85.		ZHETF,45,38(1963)	B.S.ISHKHANOV
M0166003	45-Rh	103	γ, p	19.	8.	5.5	32.00	85.	3.9	Phys.Lett.10,310(1964)	B.S.ISHKHANOV
M0166003				29.	5.3						
L0035005	46-Pd		γ, xn	17.81	218.6	8.	21.30	1651.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035005				15.92	208.5						
L0035042	46-Pd		γ, sn	15.92	204.8	7.	21.30	1381.	88.5	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035006	46-Pd		γ, n	15.92	201.1	5.	21.30	1111.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035007	46-Pd		$\gamma, 2n$	18.9	73.5	>7.	21.30	270.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
	46-Pd	108	γ, sn	15.7	210.	5.	25.00	1725.	104.	Yad.Fiz.9,241(1969)	S.V.DEMENTIJ
	46-Pd	108	γ, sn	15.7	215.	8.				Nucl.Phys.A139,501(1969)	T.K.DEAGUE
	46-Pd	108	γ, p	23.	1O.	12.				Nucl.Phys.A139,501(1969)	T.K.DEAGUE
	46-Pd	110	γ, n	15.5	16.	7.				Nucl.Phys.A139,501(1969)	T.K.DEAGUE
	47-Ag		γ, abs	15.8	218.	7.5	35.00	2568.	130.	Phys.Rev.137,B576(1965)	J.M.WYCKOFF
L0035008	47-Ag		γ, xn	15.92	198.2	10.	24.90	1922.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035008				18.35	189.3						
L0035043	47-Ag		γ, sn	15.92	198.2	7.5	29.50	1643.	98.8	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035009	47-Ag		γ, n	15.92	198.4	7.	24.90	1364.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035010	47-Ag		$\gamma, 2n$	20.25	50.7	7.	24.90	279.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0014005	47-Ag	107	γ, xn	16.066	159.59	9.5	29.50	1619.		Phys.Rev.177,1745(1969)	B.L.BERMAN
	47-Ag	107	γ, xn	16.	250.	6.5				ZHETF,42,1502(1962)	BOGDANKEVICH
L0014013	47-Ag	107	γ, sn	16.066	159.59	7.	29.50	1356.	78.7	Phys.Rev.177,1745(1969)	B.L.BERMAN
M0524002	47-Ag	107	γ, sn	16.1	195.98	7.5	30.00	1620.	95.3	Izv.AN SSSR,33,2074(1969)	B.S.ISHKHANOV
M0524002				17.7	189.35						
M0524002				24.1	65.33						
	47-Ag	107	γ, xn	16.	245.	5.				ZHETF,42,1502(1962)	BOGDANKEVICH
L0014006	47-Ag	107	γ, n	16.066	160.	5.5	29.50	1093.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0014006				24.892	41.87						
L0014007	47-Ag	107	$\gamma, 2n$	21.176	46.36	5.	29.50	263.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0014007				26.131	20.36						
M0524003	47-Ag	109	γ, sn	15.9	175.62	5.5	29.00	1210.	72.6	Izv.AN SSSR,33,2074(1969)	B.S.ISHKHANOV
M0524003				13.8	138.39						
M0524003				17.3	138.39						
M0524003				19.6	86.93						
M0524003				24.3	48.61						
L0035011	48-Cd		γ, xn	16.46	231.		24.60	2046.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
	48-Cd		γ, xn	15.6	263.	5.1	27.00	1760.	111.	ZHETF,30,85591956)	B.I.GAVRILOV
L0035044	48-Cd		γ, sn	15.37	225.3	7.	26.20	1685.	106.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035012	48-Cd		γ, n	15.37	225.7	5.	24.60	1324.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035013	48-Cd		$\gamma, 2n$	19.17	65.3	7.5	24.60	361.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035014	49-In	115	γ, xn	15.92	244.4	7.5	24.10	2026.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017002	49-In	115	γ, xn	15.601	265.49	7.5	31.10	2409.		Phys.Rev.186,1255(1969)	S.C.FULTZ

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^{1}_{int} mb	Reference	Author
L0035045	49-In	115	γ,sn	15.92	244.4	6.	29.50	1748.	108.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017029	49-In	115	γ,sn	15.601	264.77	4.5	31.10	1875.	113.	Phys.Rev.186,1255(1969)	S.C.FULTZ
	49-In	115	γ,sn	16.	310.	5.	23.00	2210.	119.	ZHETF,42,1502(1962)	BOGDANKEVICH
L0035015	49-In	115	γ,n	15.92	245.3	5.	24.10	1470.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017003	49-In	115	γ,n	15.291	264.7	4.	31.10	1354.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035016	49-In	115	$\gamma,2n$	19.44	52.4	7.5	24.10	278.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017004	49-In	115	$\gamma,2n$	20.556	66.6	8.	31.10	508.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017005	49-In	115	$\gamma,3n$	31.086	13.49		31.10	13.		Phys.Rev.186,1255(1969)	S.C.FULTZ
	50-Sn		γ,xn	16.	300.	5.	40.00	1640.	134.	Phys.Rev.112,554(1958)	E.G.FULLER
	50-Sn	112	γ,xn	15.8	295.	5.5	27.00	2230.		Yad.Fiz.20,233(1974)	YU.I.SOROKIN
	50-Sn	112	γ,sn	15.8	295.	5.5	27.00	1900.		Yad.Fiz.20,233(1974)	YU.I.SOROKIN
	50-Sn	112	γ,n	16.	340.	5.	21.00	1820.	152.	ZHETF,40,85(1961)	KUO CHI-DI
	50-Sn	114	γ,xn	15.7	265.	7.5	27.00	2260.		Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
	50-Sn	114	γ,sn	15.7	265.	7.	27.00	1860.	108.	Izv.AN SSSR,39,114(1975)	JU.I.SOROKIN
	50-Sn	116	γ,xn	15.6	260.	9.	27.00	2400.		Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
L0035017	50-Sn	116	γ,xn	15.44	277.3	7.5	22.10	1823.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017006	50-Sn	116	γ,xn	15.362	272.	6.	29.60	2083.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017006				18.769	168.9						
L0017006				27.131	76.						
	50-Sn	116	γ,sn	15.6	260.	6.	27.00	2850.	110.	Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
L0035046	50-Sn	116	γ,sn	15.44	277.3	7.5	29.50	1630.	104.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017030	50-Sn	116	γ,sn	15.982	262.	4.	29.60	1669.	99.	Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017030				27.131	55.						
L0035018	50-Sn	116	γ,n	15.44	277.3	7.5	22.10	1437.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017007	50-Sn	116	γ,n	15.362	272.	3.5	29.60	1255.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017007				28.37	36.						
L0035019	50-Sn	116	$\gamma,2n$	20.07	51.4	>7.	22.10	193.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017008	50-Sn	116	$\gamma,2n$	20.008	60.	7.5	29.60	414.		Phys.Rev.186,1255(1969)	S.C.FULTZ
	50-Sn	117	γ,xn	15.4	260.	8.	27.00	2520.		Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
L0035020	50-Sn	117	γ,xn	15.37	266.5	9.	21.10	1774.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017009	50-Sn	117	γ,xn	15.601	262.55	8.	31.10	2446.		Phys.Rev.186,1255(1969)	S.C.FULTZ
	50-Sn	117	γ,sn	15.4	260.	5.5	27.00	1390.	110.	Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
L0035047	50-Sn	117	γ,sn	15.37	266.5	5.	21.10	1554.	102.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017031	50-Sn	117	γ,sn	15.601	262.67	5.	31.10	1894.	114.	Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035021	50-Sn	117	γ,n	15.37	267.	4.	21.10	1334.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017010	50-Sn	117	γ,n	15.601	262.69	4.	31.10	1380.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035022	50-Sn	117	$\gamma,2n$	19.17	70.1	5.	21.10	220.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017011	50-Sn	117	$\gamma,2n$	19.317	71.83	7.	31.10	476.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017012	50-Sn	117	$\gamma,3n$	28.608	28.42		31.10	38.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035023	50-Sn	118	γ,xn	15.31	286.4	7.5	21.60	1893.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
	50-Sn	118	γ,xn	15.5	290.	5.5	27.00	2460.		Yad.Fiz.20,233(1974)	YU.I.SOROKIN
L0017013	50-Sn	118	γ,xn	15.601	254.75	7.5	30.80	2424.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017013				17.769	225.3						
L0035048	50-Sn	118	γ,sn	15.31	286.4	5.	21.60	1635.	106.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
	50-Sn	118	γ,sn	15.8	295.	5.5	27.00	1920.		Yad.Fiz.20,233(1974)	YU.I.SOROKIN
L0017032	50-Sn	118	γ,sn	15.601	254.75	5.5	30.80	1853.	110.	Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035024	50-Sn	118	γ,n	15.31	286.4	4.	21.60	1377.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017014	50-Sn	118	γ,n	15.601	254.4	4.	30.80	1302.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035025	50-Sn	118	$\gamma,2n$	19.39	68.5	4.5	21.60	258.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017015	50-Sn	118	$\gamma,2n$	19.008	77.75	8.	30.80	531.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017016	50-Sn	118	$\gamma,3n$	30.157	19.57		30.80	20.		Phys.Rev.186,1255(1969)	S.C.FULTZ
	50-Sn	119	γ,xn	17.	270.	9.	27.00	2630.		Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
L0017017	50-Sn	119	γ,xn	15.369	259.49	8.	31.10	2728.		Phys.Rev.186,1255(1969)	S.C.FULTZ
	50-Sn	119	γ,sn	15.4	270.	6.	27.00	1420.	111.	Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
L0017033	50-Sn	119	γ,sn	15.369	259.97	5.	31.10	1993.	118.	Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017018	50-Sn	119	γ,n	15.369	260.24	3.5	31.10	1326.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017019	50-Sn	119	$\gamma,2n$	17.769	94.41	6.	31.10	597.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017020	50-Sn	119	$\gamma,3n$	29.538	22.57	3.5	31.10	69.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017020				25.357	10.75						
L0035026	50-Sn	120	γ,xn	16.26	288.9	6.5	22.40	2169.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
	50-Sn	120	γ,xn	15.3	295.	5.5	27.00	2690.		Yad.Fiz.20,233(1974)	YU.I.SOROKIN
L0017021	50-Sn	120	γ,xn	16.84	297.3	7.5	29.90	2771.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035049	50-Sn	120	γ,sn	15.44	284.5	5.	29.50	1770.	113.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
	50-Sn	120	γ,sn	15.3	295.	5.	27.00	2070.		Yad.Fiz.20,233(1974)	YU.I.SOROKIN
L0017034	50-Sn	120	γ,sn	15.291	281.54	4.5	29.90	2074.	124.	Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035027	50-Sn	120	γ,n	14.9	289.1	4.	22.40	1371.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017022	50-Sn	120	γ,n	15.291	280.35	3.5	29.90	1389.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035028	50-Sn	120	$\gamma,2n$	18.44	82.9	5.5	22.40	399.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017023	50-Sn	120	$\gamma,2n$	17.924	99.97	6.	29.90	673.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017023				19.24	94.72						
L0017023				28.299	48.04						
L0017024	50-Sn	120	$\gamma,3n$	29.692	19.27		29.90	12.		Phys.Rev.186,1255(1969)	S.C.FULTZ
	50-Sn	122	γ,xn	16.3	320.	7.5	27.00	2940.		Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
	50-Sn	122	γ,sn	15.6	270.	5.	27.00	1510.	119.	Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
	50-Sn	124	γ,xn	16.2	340.	9.	27.00	2900.		Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
L0035029	50-Sn	124	γ,xn	15.92	344.9	5.5	21.60	2060.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017025	50-Sn	124	γ,xn	15.601	351.48	5.5	31.10	2790.		Phys.Rev.186,1255(1969)	S.C.FULTZ
	50-Sn	124	γ,sn	15.2	270.	5.5	27.00	1440.	114.	Izv.AN SSSR,39,114(1975)	YU.I.SOROKIN
L0035050	50-Sn	124	γ,sn	15.1	278.8.	5.	22.70	1558.	101.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017035	50-Sn	124	γ,sn	14.827	290.09	4.5	31.10	2010.	123.	Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035030	50-Sn	124	γ,n	14.83	257.6	3.5	21.60	1056.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017026	50-Sn	124	γ,n	14.672	272.52	3.5	31.10	1285.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035031	50-Sn	124	$\gamma,2n$	17.27	110.	5.	21.60	502.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0017027	50-Sn	124	$\gamma,2n$	16.53	115.75	5.5	31.10	670.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0017028	50-Sn	124	$\gamma,3n$	30.157	19.36	>7.	31.10	55.		Phys.Rev.186,1255(1969)	S.C.FULTZ
L0035032	51-Sb		γ,xn	15.37	276.	7.5	25.70	2315.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035051	51-Sb		γ,sn	15.37	276.	5.5	29.50	1927.	119.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035033	51-Sb		γ,n	15.37	275.5	4.5	25.70	1539.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035034	51-Sb		$\gamma,2n$	19.17	61.4	6.5	25.70	388.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
	51-Sb		γ,xn	15.	270.	4.8				Nucl.Phys.A430,99(1984)	R.P.RASSOOL
	51-Sb		$\gamma,2n$	18.	80.	>6.				Nucl.Phys.A430,99(1984)	R.P.RASSOOL
	51-Sb	121	γ,xn	15.8	275.	4.8	21.00	1473.		Nucl.Phys.A430,99(1984)	R.P.RASSOOL
M0273009	51-Sb	121	γ,n	15.	665.	5.	18.00	3287.	229.	Can.J.Phys.29,518(1951)	L.KATZ
	51-Sb	121	$\gamma,1n$	15.9	280.	5.				Nucl.Phys.A430,99(1984)	R.P.RASSOOL
	51-Sb	121	$\gamma,2n$	18.5	96.	>6.				Nucl.Phys.A430,99(1984)	R.P.RASSOOL
	51-Sb	123	γ,xn	15.3	275.	4.8	23.50	1350.		Nucl.Phys.A430,99(1984)	R.P.RASSOOL
	51-Sb	123	γ,n	15.	270.	4.				Nucl.Phys.A430,99(1984)	R.P.RASSOOL
M0273010	51-Sb	123	γ,n	15.	362.	5.	18.00	1750.	121.9	Can.J.Phys.29,518(1951)	L.KATZ
	51-Sb	123	$\gamma,2n$	18.2	90.	6.				Nucl.Phys.A430,99(1984)	R.P.RASSOOL

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
L0035035	52-Te		γ, xn	15.64	313.5	8.	25.70	2636.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035052	52-Te		γ, sn	15.1	293.9	6.	25.70	2112.	134.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035036	52-Te		γ, n	15.1	290.1	4.5	25.70	1588.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0035037	52-Te		$\gamma, 2n$	18.08	79.2	4.5	25.70	524.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0042004	52-Te	124	γ, xn	14.8	287.7	7.5	26.50	2498.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
	52-Te	124	γ, sn	14.8	287.7	7.	26.50	2022.	127.	Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042002	52-Te	124	γ, n	14.8	287.7	4.5	26.50	1546.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042003	52-Te	124	$\gamma, 2n$	18.87	80.1	7.5	26.50	476.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042007	52-Te	126	γ, xn	16.16	294.6	8.	24.80	2533.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
	52-Te	126	γ, sn	15.07	288.9	6.	24.80	2023.	129.	Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042005	52-Te	126	γ, n	15.07	288.09	4.5	24.80	1513.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042006	52-Te	126	$\gamma, 2n$	18.05	95.9	4.	24.80	510.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042010	52-Te	128	γ, xn	16.16	336.1	7.	26.20	2732.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
	52-Te	128	γ, sn	14.8	315.4	4.	26.20	2093.	134.	Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042008	52-Te	128	γ, n	14.8	315.4	4.	26.20	1454.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042009	52-Te	128	$\gamma, 2n$	18.05	115.	7.	26.20	639.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042013	52-Te	130	γ, xn	15.62	384.	7.	25.90	2893.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
	52-Te	130	γ, sn	14.53	316.9	6.	25.90	2180.	139.	Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042011	52-Te	130	γ, n	14.53	316.9	4.5	25.90	1467.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042012	52-Te	130	$\gamma, 2n$	16.7	119.9	5.5	25.90	713.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
	53-I	127	γ, xn	14.94	252.26		16.90	1043.		Bul.Am.Ph.Soc.31,855(1986)	B.L.BERMAN
	53-I	127	γ, xn	14.88	309.1	6.	24.90	2380.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0009002	53-I	127	γ, xn	14.982	222.61	7.5	29.50	2171.		Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
L0009002				17.15	203.						
L0057007	53-I	127	γ, xn	14.938	252.26	>5.	16.90	1043.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
M0511002	53-I	127	γ, sn	15.2	289.53	5.9	22.40	1532.3	107.5	Phys.Rev.C39,1631(1989)	R.P.RASSOOL
	53-I	127	γ, sn	15.	254.	6.4				Phys.Rev.C36,1286(1987)	B.L.BERMAN
	53-I	127	γ, sn	14.94	252.26		16.90	1036.	74.	Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0015022	53-I	127	γ, sn	14.88	309.	6.	24.90	1989.	128.	Nucl.Phys.A133,417(1969)	R.BERGERE
L0009009	53-I	127	γ, sn	14.982	221.48	5.5	29.50	1728.	105.	Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
	53-I	127	γ, n	252.26	14.94		16.90	1030.		Bul.Am.Ph.Soc.31,855(1986)	B.L.BERMAN
L0015003	53-I	127	γ, n	14.88	309.1	5.	24.90	1601.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0009003	53-I	127	γ, n	15.601	225.55	4.5	29.50	1285.		Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
L0057005	53-I	127	γ, n	14.938	252.26		16.90	1030.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
M0511003	53-I	127	$\gamma, 2n$	18.2	73.26	4.5	23.00	274.1	14.4	Phys.Rev.C39,1631(1989)	R.P.RASSOOL
	53-I	127	$\gamma, 2n$	21.35	16.85		16.90	6.		Bul.Am.Ph.Soc.31,855(1986)	B.L.BERMAN
L0015004	53-I	127	$\gamma, 2n$	18.68	69.9	7.5	23.00	390.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015004				26.57	34.4						
L0009004	53-I	127	$\gamma, 2n$	19.317	67.08	7.	29.50	443.		Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
L0057006	53-I	127	$\gamma, 2n$	16.851	21.35		16.90	6.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0015005	53-I	127	$\gamma, 3n$	30.65	12.2	>10.	31.20	31.		Nucl.Phys.A133,417(1969)	R.BERGERE
	53-I	127	$\gamma, 3n$	30.7	12.2	>10.	29.50	¡20.		Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
L0035038	55-Cs	133	γ, xn	15.31	321.2	7.5	24.20	2484.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0014008	55-Cs	133	γ, xn	15.291	296.01	8.	29.50	2505.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0035053	55-Cs	133	γ, sn	15.31	321.2	6.	24.20	2156.	137.	Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0014014	55-Cs	133	γ, sn	15.291	296.01	6.	29.50	1986.	124.	Phys.Rev.177,1745(1969)	B.L.BERMAN
L0035039	55-Cs	133	γ, n	15.31	321.2	4.5	24.20	1828.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0014009	55-Cs	133	γ, n	15.291	296.18	4.5	29.50	1475.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0035040	55-Cs	133	$\gamma, 2n$	18.71	61.6	6.5	24.20	328.		Nucl.Phys.A219,39(1974)	A.LEPRETRE
L0014010	55-Cs	133	$\gamma, 2n$	18.698	75.	6.	29.50	503.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0014010				19.937	68.85						
L0014010				25.511	31.55						
L0014011	55-Cs	133	$\gamma, 3n$	29.228	8.		29.50	8.		Phys.Rev.177,1745(1969)	B.L.BERMAN
L0024002	56-Ba		γ, xn	15.307	364.	6.	24.30	2619.		Nucl.Phys.A172,426(1971)	H.BEIL
L0024016	56-Ba		γ, sn	15.307	364.	4.	24.30	2248.	146.	Nucl.Phys.A172,426(1971)	H.BEIL
L0024003	56-Ba		γ, n	15.307	364.	4.	24.30	1877.		Nucl.Phys.A172,426(1971)	H.BEIL
L0024004	56-Ba		$\gamma, 2n$	18.031	63.	6.5	24.30	371.		Nucl.Phys.A172,426(1971)	H.BEIL
L0019004	56-Ba	138	γ, xn	15.291	337.69	7.	27.10	2536.		Phys.Rev.C2,2318(1970)	B.L.BERMAN
L0019008	56-Ba	138	γ, sn	15.291	337.27	4.5	27.10	2040.	130.	Phys.Rev.C2,2318(1970)	B.L.BERMAN
L0019005	56-Ba	138	γ, n	15.291	336.44	4.	27.10	1547.		Phys.Rev.C2,2318(1970)	B.L.BERMAN
M0367003	56-Ba	138	γ, n	15.33	353.86	4.5	21.20	1870.5	124.6	Izv.AN SSSR,55,953(1991)	S.N.BELJAEV
L0019006	56-Ba	138	$\gamma, 2n$	18.698	76.83	7.	27.10	490.		Phys.Rev.C2,2318(1970)	B.L.BERMAN
L0019007	56-Ba	138	$\gamma, 3n$	28.608	11.3		27.10	3.		Phys.Rev.C2,2318(1970)	B.L.BERMAN
L0019007							28.60	13.			
M0398004	57-La	139	γ, xn	15.37	420.	4.5	24.00	2510.	158.	Nucl.Phys.A191,305(1972)	T.K.DEAQUE
L0024005	57-La	139	γ, xn	15.307	340.	5.5	24.30	2269.		Nucl.Phys.A172,426(1971)	H.BEIL
	57-La	139	γ, xn	14.8	325.	4.	30.00	1760.		Phys.Rev.134,B557(1964)	L.B.RICE
	57-La	139	γ, xn	15.5	358.	6.5	21.20	1910.		Nucl.Phys.32,236(1962)	J.MILLER
L0024017	57-La	139	γ, sn	15.307	340.	4.	24.30	1978.	128.	Nucl.Phys.A172,426(1971)	H.BEIL
	57-La	139	γ, sn	14.5	305.	3.5	30.00	1360.		Phys.Rev.134,B557(1964)	L.B.RICE
L0012003	57-La	139	γ, n	14.88	363.7	4.	25.50	1873.4	125.1	Nucl.Phys.A121,463(1968)	R.BERGERE
L0024018	57-La	139	γ, n	15.307	340.	4.	24.30	1687.		Nucl.Phys.A172,426(1971)	H.BEIL
M0367004	57-La	139	γ, n	15.09	364.84	4.5	22.60	1981.5	129.8	Izv.AN SSSR,55,953(1991)	S.N.BELJAEV
L0024007	57-La	139	$\gamma, 2n$	18.848	53.0	8.	29.00	291.		Nucl.Phys.A172,426(1971)	H.BEIL
L0012004	57-La	139	$\gamma, 2n$	18.41	53.9	8.	24.30	291.		Nucl.Phys.A121,463(1968)	R.BERGERE
	57-La	139	$\gamma, 3n$	30.38	12.5	>10.	28.60	13.		Nucl.Phys.A172,426(1971)	H.BEIL
L0012005	57-La	139	$\gamma, 3n$	30.38	12.5	>10.	28.60	13.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0024008	58-Ce		γ, xn	15.307	383.16	>5.	16.90	1561.9	111.7	Nucl.Phys.A172,426(1971)	H.BEIL
L0015023	58-Ce		γ, xn	14.88	369.1	5.5	30.00	2300.	140.	Nucl.Phys.A133,417(1969)	R.BERGERE
	58-Ce		γ, xn	15.9	381.5	5.5	21.20	1880.		Nucl.Phys.32,236(1962)	J.MILLER
L0015023	58-Ce		γ, sn	14.88	369.1	5.5	30.00	2300.	140.	Nucl.Phys.A133,417(1969)	R.BERGERE
L0024019	58-Ce		γ, sn	15.307	359.16	>5.	16.90	1495.1	107.3	Nucl.Phys.A172,426(1971)	H.BEIL
L0015007	58-Ce		γ, n	14.88	348.8	4.	23.30	1761.8	121.7	Nucl.Phys.A133,417(1969)	R.BERGERE
L0024009	58-Ce		γ, n	15.034	338.93	>5	16.90	1428.3	103.	Nucl.Phys.A172,426(1971)	H.BEIL
L0015008	58-Ce		$\gamma, 2n$	20.56	52.4	7.5	29.60	472.6	23.5	Nucl.Phys.A133,417(1969)	R.BERGERE
L0015008				15.69	27.1						
L0015008				18.96	51.4						
L0024010	58-Ce		$\gamma, 2n$	15.852	27.	>7.	16.90	66.6	4.3	Nucl.Phys.A172,426(1971)	H.BEIL
L0015009	58-Ce		$\gamma, 3n$	29.02	7.7	>6.	29.60	19.8	.7	Nucl.Phys.A133,417(1969)	R.BERGERE
L0042016	58-Ce	140	γ, xn	15.07	390.9	7.	26.50	2855.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
	58-Ce	140	γ, sn	15.07	390.9	4.	26.50	2398.	153.	Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042014	58-Ce	140	γ, n	15.07	390.9	3.5	26.50	1941.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
M0367005	58-Ce	140	γ, n	15.33	361.78	4.5	21.70	1825.5	120.7	Izv.AN SSSR,55,953(1991)	S.N.BELJAEV
M0367005				9.69	37.1						
L0042015	58-Ce	140	$\gamma, 2n$	20.49	65.5	8.	26.50	457.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042019	58-Ce	142	γ, xn	15.34	553.4	5.	23.50	3394.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
	58-Ce	142	γ, sn	15.34	332.	6.	23.50	2208.	150.	Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042017	58-Ce	142	γ, n	12.91	186.1	4.	23.50	1022.		Nucl.Phys.A258,350(1976)	A.LEPRETRE
L0042018	58-Ce	142	$\gamma, 2n$	15.07	239.1	4.	23.50	1186.		Nucl.Phys.A258,350(1976)	A.LEPRETRE

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
M0398002	59-Pr	141	γ, xn	15.49	404.3	4.	24.00	1840.	121.	Nucl.Phys.A191,305(1972)	T.K.DEAQUE
L0024012	59-Pr	141	γ, xn	15.034	359.27	4.5	16.90	1422.	101.	Nucl.Phys.A172,426(1971)	H.BEIL
L0009005	59-Pr	141	γ, xn	14.982	332.66	4.5	29.80	2412.		Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
L0057008	59-Pr	141	γ, xn	15.416	338.43	4.5	16.90	1143.6	77.3	Phys.Rev.C36,1286(1987)	B.L.BERMAN
	59-Pr	141	γ, xn	14.8	315.	9.	30.00	1760.		Phys.Rev.134,B557(1964)	L.B.RICE
				20.	175.						
L0057008	59-Pr	141	γ, sn	15.416	338.43	4.5	16.90	1143.6	77.3	Phys.Rev.C36,1286(1987)	B.L.BERMAN
	59-Pr	141	γ, sn	14.9	450.	4.5				Nucl.Phys.A406,257(1983)	T.J.BOAL
	59-Pr	141	γ, sn	15.03	359.27	4.5	16.90	1422.	101.	Nucl.Phys.A172,426(1971)	H.BEIL
L0009010	59-Pr	141	γ, sn	14.982	332.66	4.	29.80	2062.	128.	Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
	59-Pr	141	γ, sn	14.8	305.	8.	30.00	1470.		Phys.Rev.134,B557(1964)	L.B.RICE
				20.	170.						
L0057008	59-Pr	141	γ, n	15.416	338.43	4.5	16.90	1143.6	77.3	Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0024012	59-Pr	141	γ, n	15.034	359.27	4.5	16.90	1422.	101.	Nucl.Phys.A172,426(1971)	H.BEIL
L0009006	59-Pr	141	γ, n	14.982	335.56	4.	29.80	1717.		Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
	59-Pr	141	γ, n	15.	380.	4.5	30.00	1790.		Phys.Rev.143,B730(1966)	B.C.COOK
M0367006	59-Pr	141	γ, n	15.09	355.97	4.5	23.50	1854.1	121.1	Izv.AN SSSR,55,953(1991)	S.N.BELJAEV
M0367006				9.81	35.57						
L0059003	59-Pr	141	γ, n	15.358	351.68	4.5	18.10	1395.	94.	T,YOUNG,72	L.M.YOUNG
M0345004	59-Pr	141	γ, n	15.52	359.5	4.5	17.60	1427.1	98.4	Yad.Konst.1,52(1993)	V.V.VARLAMOV
M0345004				14.61	326.7						
M0345004				14.94	344.9						
M0345004				16.06	308.7						
L0020002	59-Pr	141	$\gamma, 1n$	15.39	352.	4.5	23.70	1713.		Phys.Rev.C2,1129(1970)	R.E.SUND
L0009007	59-Pr	141	$\gamma, 2n$	19.937	59.34	5.	29.80	340.		Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
L0009008	59-Pr	141	$\gamma, 3n$	32.65	16.5	>4.	29.80	5.		Phys.Rev.148,1198(1966)	R.L.BRAMBLETT
L0009008							33.00	36.			
L0024013	60-Nd		γ, xn	15.307	402.33	4.5	18.00	1882.		Nucl.Phys.A172,426(1971)	H.BEIL
L0024020	60-Nd		γ, sn	15.307	319.9	4.5	18.00	1559.	112.	Nucl.Phys.A172,426(1971)	H.BEIL
L0024014	60-Nd		γ, n	14.626	252.19	4.	18.00	1236.		Nucl.Phys.A172,426(1971)	H.BEIL
L0024015	60-Nd		$\gamma, 2n$	16.805	100.09	3.	18.00	323.		Nucl.Phys.A172,426(1971)	H.BEIL
L0025002	60-Nd	142	γ, xn	14.898	364.41	5.	20.20	1918.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025023	60-Nd	142	γ, sn	14.898	364.41	4.	20.20	1873.	126.	Nucl.Phys.A172,437(1971)	P.CARLOS
L0025003	60-Nd	142	γ, n	14.898	364.41	4.	20.20	1828.		Nucl.Phys.A172,437(1971)	P.CARLOS
M0367007	60-Nd	142	γ, n	15.03	377.02	4.5	22.60	1948.7	126.7	Izv.AN SSSR,55,953(1991)	S.N.BELJAEV
M0367007				19.62	115.75						
L0025004	60-Nd	142	$\gamma, 2n$	19.938	30.7	>4.	20.20	45.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025005	60-Nd	143	γ, xn	15.443	369.22	6.	19.80	2054.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025024	60-Nd	143	γ, sn	15.443	346.92	4.5	19.80	1875.	130.	Nucl.Phys.A172,437(1971)	P.CARLOS
L0025006	60-Nd	143	γ, n	14.898	337.63	3.5	19.80	1696.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025007	60-Nd	143	$\gamma, 2n$	17.622	65.05	9.	19.80	179.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025007				15.443	22.3						
L0025007				19.257	52.66						
L0025008	60-Nd	144	γ, xn	15.307	434.43	5.	20.20	2445.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025025	60-Nd	144	γ, sn	15.307	326.63	5.	20.20	1882.	128.	Nucl.Phys.A172,437(1971)	P.CARLOS
L0025009	60-Nd	144	γ, n	14.081	273.81	4.5	20.20	1319.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025010	60-Nd	144	$\gamma, 2n$	16.396	139.06	4.5	20.20	563.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025011	60-Nd	145	γ, xn	15.579	476.73	4.5	20.20	2694.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025026	60-Nd	145	γ, sn	15.579	325.46	6.	20.20	2037.	147.	Nucl.Phys.A172,437(1971)	P.CARLOS
L0025012	60-Nd	145	γ, n	13.672	250.97	5.	20.20	1380.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025013	60-Nd	145	$\gamma, 2n$	15.852	154.71	4.	20.20	657.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025014	60-Nd	146	γ, xn	15.034	457.88	5.	20.20	2587.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025027	60-Nd	146	γ, sn	15.307	311.63	4.5.	20.20	1920.	133.	Nucl.Phys.A172,437(1971)	P.CARLOS
	60-Nd	146	γ, sn	13.8	332.	4.1	23.00	2120.		Yad.Fiz.13,463(1971)	O.V.VASIL'EV
L0025015	60-Nd	146	γ, n	13.809	254.25	3.5	20.20	1253.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025016	60-Nd	146	$\gamma, 2n$	16.124	177.75	3.5	20.20	667.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025017	60-Nd	148	γ, xn	15.715	467.8	5.5	18.80	2537.		Nucl.Phys.A172,437(1971)	P.CARLOS
	60-Nd	148	γ, xn	14.2	600.	4.5				Yad.Fiz.10,460(1969)	O.V.VASIL'EV
				15.9	545.						
L0025028	60-Nd	148	γ, sn	14.762	270.	7.	18.80	1702.	122.	Nucl.Phys.A172,437(1971)	P.CARLOS
	60-Nd	148	γ, sn	13.5	440.	5.	22.00	2406.		Yad.Fiz.10,460(1969)	O.V.VASIL'EV
				15.9	275.						
L0025018	60-Nd	148	γ, n	12.583	192.6	3.	18.80	867.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025019	60-Nd	148	$\gamma, 2n$	15.715	214.8	3.5	18.80	835.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025020	60-Nd	150	γ, xn	15.579	456.33	7.	20.20	3185.		Nucl.Phys.A172,437(1971)	P.CARLOS
	60-Nd	150	γ, xn	15.9	605.	4.5				Yad.Fiz.10,460(1969)	O.V.VASIL'EV
				14.7	545.						
L0025029	60-Nd	150	γ, sn	15.579	270.84	8.	20.20	2011.	142.	Nucl.Phys.A172,437(1971)	P.CARLOS
L0025029				12.855	236.7						
	60-Nd	150	γ, sn	13.3	340.	5.5	22.00	2213.		Yad.Fiz.10,460(1969)	O.V.VASIL'EV
				15.9	335.						
L0025021	60-Nd	150	γ, n	12.31	236.7	3.	20.20	1174.		Nucl.Phys.A172,437(1971)	P.CARLOS
L0025022	60-Nd	150	$\gamma, 2n$	15.579	185.49	5.	20.20	837.		Nucl.Phys.A172,437(1971)	P.CARLOS
	62-Sm		γ, xn	14.88	438.3	7.	25.20	3247.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015024	62-Sm		γ, sn	14.88	338.3	6.	25.20	2425.	164.	Nucl.Phys.A133,417(1969)	R.BERGERE
L0015011	62-Sm		γ, n	14.33	293.7	5.	25.20	1628.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015012	62-Sm		$\gamma, 2n$	16.24	149.	5.	25.20	772.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015013	62-Sm		$\gamma, 3n$	27.39	20.8	>10.	25.20	25.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015013							27.40	59.			
L0033002	62-Sm	144	γ, xn	15.37	403.	4.5	20.80	1970.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033017	62-Sm	144	γ, sn	15.37	391.5	4.5	20.80	1935.	126.	Nucl.Phys.A225,171(1974)	P.CARLOS
L0033003	62-Sm	144	γ, n	15.37	380.	4.	20.80	1900.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033004	62-Sm	144	$\gamma, 2n$	20.79	31.7		20.80	35.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033004				16.19	20.5						
L0033005	62-Sm	148	γ, xn	15.64	408.5	6.	20.00	2498.		Nucl.Phys.A225,171(1974)	P.CARLOS
	62-Sm	148	γ, sn	14.1	335.	4.	22.00	2080.	137.	Yad.Fiz.13,463(1971)	O.V.VASIL'EV
L0033018	62-Sm	148	γ, sn	14.56	337.8	5.5	20.00	1942.	134.	Nucl.Phys.A225,171(1974)	P.CARLOS
L0033006	62-Sm	148	γ, n	14.56	331.1	5.5	20.00	1386.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033007	62-Sm	148	$\gamma, 2n$	16.73	149.9	6.	20.00	556.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033008	62-Sm	150	γ, xn	15.92	449.2	6.	19.80	2687.		Nucl.Phys.A225,171(1974)	P.CARLOS
	62-Sm	150	γ, xn	15.9	500.	5.5				Yad.Fiz.10,460(1969)	O.V.VASIL'EV
	62-Sm	150	γ, sn	13.6	360.	5.5	23.00	2213.	203.	Yad.Fiz.10,460(1969)	O.V.VASIL'EV
L0033019	62-Sm	150	γ, sn	14.7	322.2	6.5	19.80	1991.	141.	Nucl.Phys.A225,171(1974)	P.CARLOS
L0033009	62-Sm	150	γ, n	14.15	302.3	4.	19.80	1295.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033010	62-Sm	150	$\gamma, 2n$	16.32	179.	4.	19.80	696.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033010				19.03	114.9						
L0033011	62-Sm	152	γ, xn	16.32	432.1	7.5	20.00	2707.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033011				13.21	259.3						
	62-Sm	152	γ, xn	14.6	560.	5.5				Yad.Fiz.10,460(1969)	O.V.VASIL'EV

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
				11.2	507.						
	62-Sm	152	γ, sn	11.2	507.	2.4	25.00	3079.	264.	Yad.Fiz.10,460(1969)	O.V.VASIL'EV
				14.7	502.						
L0033020	62-Sm	152	γ, sn	15.64	281.3	7.5	20.00	2026.	143.	Nucl.Phys.A225,171(1974)	P.CARLOS
L0033020				12.21	258.1						
L0033012	62-Sm	152	γ, n	12.53	257.3	4.5	20.00	1345.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033013	62-Sm	152	$\gamma, 2n$	16.86	178.5	4.	20.00	681.		Nucl.Phys.A225,171(1974)	P.CARLOS
M0073002	62-Sm	154	γ, abs	12.35	277.	7.5	20.00	1940.	286.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073002				15.53	255.						
L0033014	62-Sm	154	γ, xn	16.19	420.3	8.5	21.10	2841.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033014				12.39	252.1						
	62-Sm	154	γ, xn	16.6	460.	5.5				Yad.Fiz.10,460(1969)	O.V.VASIL'EV
				11.	254.						
	62-Sm	154	γ, sn	15.3	400.	3.	23.00	2478.	202.	Yad.Fiz.10,460(1969)	O.V.VASIL'EV
				11.	254.						
L0033021	62-Sm	154	γ, sn	12.39	252.1	8.	21.10	2059.	144.	Nucl.Phys.A225,171(1974)	P.CARLOS
L0033021				15.92	248.8						
L0033015	62-Sm	154	γ, n	12.39	252.1	4.5	21.10	1277.		Nucl.Phys.A225,171(1974)	P.CARLOS
L0033016	62-Sm	154	$\gamma, 2n$	16.73	178.9	4.	21.10	782.		Nucl.Phys.A225,171(1974)	P.CARLOS
	63-Eu	151	γ, xn	16.	400.	6.				Nucl.Phys.A406,257(1983)	T.J.BOAL
	63-Eu	151	γ, sn	14.36	303.	5.1	24.50	1970.	133.	Nucl.Phys.A406,257(1983)	T.J.BOAL
	63-Eu	151	γ, sn	14.	285.	4.5	22.00	2020.	131.	Yad.Fiz.13,463(1971)	O.V.VASIL'EV
	63-Eu	153	γ, xn	16.5	340.	9.				Nucl.Phys.A406,257(1983)	T.J.BOAL
				12.8	230.						
L0016002	63-Eu	153	γ, xn	16.84	316.04	9.	28.90	3017.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016002				12.814	239.22						
	63-Eu	153	γ, sn	12.8	240.	7.5	24.50	2000.	134.	Nucl.Phys.A406,257(1983)	T.J.BOAL
				15.	225.						
L0016018	63-Eu	153	γ, sn	15.601	259.78	8.	28.90	2273.	148.	Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016018				12.814	239.22						
L0016003	63-Eu	153	γ, n	14.67	244.55	7.	28.90	1566.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016003				12.814	239.31						
L0016004	63-Eu	153	$\gamma, 2n$	16.84	98.55	7.	28.90	670.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016005	63-Eu	153	$\gamma, 3n$	27.679	17.68	3.	28.90	37.		Phys.Rev.185,1576(1969)	B.L.BERMAN
M0073003	64-Gd	156	γ, abs	12.23	296.	7.5	20.00	2070.	295.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073003				15.33	296.						
	64-Gd	156	γ, xn	16.5	400.	7.5				Nucl.Phys.A406,257(1983)	T.J.BOAL
				13.	275.						
	64-Gd	156	γ, sn	15.	295.	7.5	24.50	2130.	144.	Nucl.Phys.A406,257(1983)	T.J.BOAL
				13.	275.						
	64-Gd	152	γ, sn	15.	259.	3.	22.00	1990.	135.	Yad.Fiz.13,463(1971)	O.V.VASIL'EV
				12.	147.						
	64-Gd	154	γ, sn	15.	250.	2.4	22.00	2000.	133.	Yad.Fiz.13,463(1971)	O.V.VASIL'EV
				11.9	161.						
	64-Gd	156	γ, sn	15.2	243.	2.6	22.00	2110.	142.	Yad.Fiz.13,463(1971)	O.V.VASIL'EV
				11.9	180.						
	64-Gd	158	γ, sn	14.9	249.	2.6	22.00	2160.	146.	Yad.Fiz.13,463(1971)	O.V.VASIL'EV
				11.7	165.						
L0016006	64-Gd	160	γ, xn	16.066	457.15	8.5	29.50	3748.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016006				12.194	278.09						
L0016019	64-Gd	160	γ, sn	16.066	285.82	8.5	29.50	2533.	169.	Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016019				12.194	278.09						
L0016007	64-Gd	160	γ, n	12.194	279.96	4.	29.50	1398.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016008	64-Gd	160	$\gamma, 2n$	16.84	192.78	4.	29.50	1055.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016009	64-Gd	160	$\gamma, 3n$	27.37	18.86	>7.	29.50	80.		Phys.Rev.185,1576(1969)	B.L.BERMAN
	65-Tb	159	γ, abs	17.	400.	5.5	19.00	3111.		ZHETF,42,1502(1962)	BOGDANKEVICH
				12.3	330.						
M0057003	65-Tb	159	γ, xn	16.8	459.	8.	23.00	3390.	213.7	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057003				12.8	294.						
L0012006	65-Tb	159	γ, xn	16.24	344.9	8.5	27.40	3194.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012006				12.16	260.1						
	65-Tb	159	γ, xn	16.69	331.	7.	28.00	3187.		Phys.Rev.B133,869(1964)	R.L.BRAMBLETT
				12.35	259.						
M0057002	65-Tb	159	γ, sn	15.2	358.	7.	20.80	2475.7	170.1	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057002				12.55	296.						
L0012019	65-Tb	159	γ, sn	15.69	285.8	8.	27.40	2557.	170.	Nucl.Phys.A121,463(1968)	R.BERGERE
L0012019				12.16	262.8						
L0005003	65-Tb	159	γ, sn	16.685	331.	6.5	28.00	2300.	151.	Phys.Rev.B133,869(1964)	R.L.BRAMBLETT
L0005003				12.349	259.						
L0012007	65-Tb	159	γ, n	12.16	265.5	7.	27.40	1936.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012007				15.42	262.1						
L0005004	65-Tb	159	γ, n	12.349	259.	5.	28.00	1413.		Phys.Rev.B133,869(1964)	R.L.BRAMBLETT
L0005004				15.136	251.						
L0012008	65-Tb	159	$\gamma, 2n$	17.05	101.	5.	27.40	605.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012008				24.67	38.4						
L0005005	65-Tb	159	$\gamma, 2n$	17.304	145.	5.	28.00	887.		Phys.Rev.B133,869(1964)	R.L.BRAMBLETT
L0005005				26.75	57.						
L0012009	65-Tb	159	$\gamma, 3n$	29.29	18.4	>10.	27.40	16.		Nucl.Phys.A121,463(1968)	R.BERGERE
M0073004	67-Ho	165	γ, abs	12.4	302.	6.	20.00	1860.	253.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073004				15.66	282.						
	67-Ho	165	γ, abs	12.2	300.	6.				Pisma ZHETF,23,411(1976)	G.M.GUREVICH
				15.7	300.						
M0057004	67-Ho	165	γ, xn	16.7	508.	10.	22.00	3360.	218.	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057004				12.5	310.						
L0016010	67-Ho	165	γ, xn	16.84	369.66	8.5	28.90	3355.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016010				12.504	290.79						
L0012010	67-Ho	165	γ, xn	16.24	416.8	7.5	26.80	3667.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012010				12.16	322.4						
	67-Ho	165	γ, xn	16.3	395.	7.5				J.Phys.Et Rad.27,262(1966)	P.AXEL
				12.1	305.						
	67-Ho	165	γ, xn	15.8	365.	8.5				Phys.Rev.129,2723(1963)	R.L.BRAMBLETT
				12.1	275.						
L0016020	67-Ho	165	γ, sn	12.5	290.79	8.	28.90	2523.	166.	Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016020				16.53	254.36						
L0012020	67-Ho	165	γ, sn	15.42	324.7	2.5	26.80	2871.	194.	Nucl.Phys.A121,463(1968)	R.BERGERE
L0012020				12.16	323.2						
	67-Ho	165	γ, sn	15.4	335.	7.5				J.Phys.Et Rad.27,262(1966)	P.AXEL
				12.1	305.						
	67-Ho	165	γ, sn	15.8	335.	8.5	28.00	2370.		Phys.Rev.129,2723(1963)	R.L.BRAMBLETT

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
				12.1	295.						
M0057006	67-Ho	165	γ, sn	16.7	348.	8.	20.00	3000.	218.	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057006				12.5	308.						
L0016011	67-Ho	165	γ, n	12.504	290.91	6.	28.90	1735.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016011				14.982	265.41						
L0012011	67-Ho	165	γ, n	12.16	323.9	6.	26.80	2090.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012011				14.88	301.9						
	67-Ho	165	γ, n	12.	275.	5.5				Phys.Rev.129,2723(1963)	R.L.BRAMBLETT
				15.2	275.						
M0057005	67-Ho	165	$\gamma, 2n$	17.3	181.	5.	20.70	675.7	37.8	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
L0016012	67-Ho	165	$\gamma, 2n$	16.84	128.07	5.5	28.90	744.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0012012	67-Ho	165	$\gamma, 2n$	17.32	130.9	6.	26.80	766.		Nucl.Phys.A121,463(1968)	R.BERGERE
	67-Ho	165	$\gamma, 2n$	17.4	105.	4.5				J.Phys. Et Rad.27,262(1966)	P.AXEL
	67-Ho	165	$\gamma, 2n$	17.5	150.	5.5				Phys.Rev.129,2723(1963)	R.L.BRAMBLETT
L0016013	67-Ho	165	$\gamma, 3n$	28.299	21.21	>5.	28.90	44.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0012013	67-Ho	165	$\gamma, 3n$	28.48	21.7	>10.	26.80	15.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012013							28.50	45.			
	68-Er		γ, xn	15.15	405.3	5.5	21.10	2973.		Nucl.Phys.A133,417(1969)	R.BERGERE
				12.16	308.6						
L0015025	68-Er		γ, sn	12.16	308.6	2.8	21.10	2387.	172.	Nucl.Phys.A133,417(1969)	R.BERGERE
				15.15	305.3						
L0015015	68-Er		γ, n	12.16	308.6	5.5	21.10	1801.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015015				14.88	259.3						
L0015016	68-Er		$\gamma, 2n$	16.78	126.1	5.5	21.10	586.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015016							27.40	768.			
L0015017	68-Er		$\gamma, 3n$	27.66	18.7	>15.	27.70	52.		Nucl.Phys.A133,417(1969)	R.BERGERE
M0057007	68-Er	166	γ, xn	16.8	451.	8.5	22.00	3560.	216.	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057007				12.6	297.						
M0057009	68-Er	166	γ, sn	16.	358.	7.5	20.00	3360.	216.	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057009				12.6	297.						
M0057008	68-Er	166	$\gamma, 2n$	18.1	182.	4.5	20.50	590.5	32.8	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057008				17.4	155.						
M0057008				19.1	152.						
M0073005	68-Er	168	γ, abs	15.25	342.	7.5	20.00	2240.	307.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073005				12.01	311.						
M0318002	70-Yb	170	γ, xn	15.82	379.	7.	20.20	2492.7	175.7	Vop.Teor.Y.Fiz.5,42(1976)	A.M.GORYACHEV
M0318002				12.62	351.						
M0318003	70-Yb	171	γ, xn	15.42	389.	6.5	20.20	2450.3	174.7	Vop.Teor.Y.Fiz.5,42(1976)	A.M.GORYACHEV
M0318003				12.42	364.						
M0318004	70-Yb	172	γ, xn	12.42	365.	6.	20.20	2423.7	173.2	Vop.Teor.Y.Fiz.5,42(1976)	A.M.GORYACHEV
M0318004				15.62	360.						
M0318005	70-Yb	173	γ, xn	15.62	405.	6.5	20.20	2494.9	178.	Vop.Teor.Y.Fiz.5,42(1976)	A.M.GORYACHEV
M0318005				12.22	372.						
M0073006	70-Yb	174	γ, abs	15.19	403.	7.5	20.00	2690.	382.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073006				12.18	400.						
M0318006	70-Yb	174	γ, xn	15.22	382.	6.	20.20	2517.8	180.7	Vop.Teor.Y.Fiz.5,42(1976)	A.M.GORYACHEV
M0318006				12.42	345.						
M0318007	70-Yb	176	γ, xn	15.62	370.	7.	20.20	2529.7	182.1	Vop.Teor.Y.Fiz.5,42(1976)	A.M.GORYACHEV
M0318007				12.42	369.						
	71-Lu	175	γ, xn	15.15	431.4	8.	23.00	3142.		Nucl.Phys.A133,417(1969)	R.BERGERE
				12.43	315.4						
L0015026	71-Lu	175	γ, sn	15.15	330.6	7.	23.00	2507.	173.	Nucl.Phys.A133,417(1969)	R.BERGERE
L0015026				12.43	315.2						
L0015019	71-Lu	175	γ, n	12.43	315.4	6.	23.00	1872.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015019				14.6	302.4						
L0015020	71-Lu	175	$\gamma, 2n$	16.78	132.3	5.5	23.00	635.		Nucl.Phys.A133,417(1969)	R.BERGERE
L0015020							28.50	742.			
L0015021	71-Lu	175	$\gamma, 3n$	27.39	25.4	>8.	28.50	65.		Nucl.Phys.A133,417(1969)	R.BERGERE
	71-Lu	175	γ, sn	12.4	270.	2.6	25.00	2900.	206.	Nucl.Phys.A121,463(1968)	R.BERGERE
	72-Hf	176	γ, xn	16.7	445.	7.5				Yad.Fiz.26,465(1977)	A.M.GORYACHEV
				12.2	385.						
M0007002	72-Hf	176	γ, sn	12.42	374.7	6.5	20.00	2571.	184.	Yad.Fiz.26,465(1977)	A.M.GORYACHEV
M0007002				15.04	356.9						
M0073007	72-Hf	178	γ, abs	12.37	415.	7.5	20.00	2850.	399.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073007				14.58	406.						
	72-Hf	178	γ, abs	12.2	410.	7.5				Pisma ZHETF,23,411(1976)	G.M.GUREVICH
				14.7	400.						
	72-Hf	178	γ, xn	16.	525.	9.				Yad.Fiz.26,465(1977)	A.M.GORYACHEV
				12.	395.						
M0057010	72-Hf	178	γ, xn	16.	561.	7.	22.00	3080.	196.	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057010				12.7	344.						
M0007003	72-Hf	178	γ, sn	12.54	387.5	6.5	20.00	2580.	185.	Yad.Fiz.26,465(1977)	A.M.GORYACHEV
M0007003				15.79	355.3						
M0057012	72-Hf	178	γ, sn	14.5	379.	6.	20.00	3080.	196.	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0057012				12.5	298.						
M0057012				16.	318.						
M0057011	72-Hf	178	$\gamma, 2n$	16.	246.	4.5	20.00	887.2	52.3	Yad.Fiz.23,1145(1976)	B.I.GORYACHEV
M0073008	72-Hf	180	γ, abs	12.28	430.	7.5	20.00	2720.	403.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073008				15.77	409.						
	72-Hf	180	γ, abs	12.2	440.	7.5				Pisma ZHETF,23,411(1976)	G.M.GUREVICH
				15.6	400.						
	72-Hf	180	γ, xn	15.9	575.	9.				Yad.Fiz.26,465(1977)	A.M.GORYACHEV
				12.5	375.						
M0007004	72-Hf	180	γ, sn	12.54	372.4	7.	20.00	2535.	182.	Yad.Fiz.26,465(1977)	A.M.GORYACHEV
M0007004				15.29	353.7						
M0073009	73-Ta	181	γ, abs	14.54	409.	7.5	20.00	2840.	381.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
	73-Ta	181	γ, abs	12.5	410.	7.5				Pisma ZHETF,23,411(1976)	G.M.GUREVICH
				15.	410.						
	73-Ta	181	γ, xn	15.8	446.	7.5				Austr.J.Phys.26,585(1973)	R.S.HICKS
				12.4	380.						
	73-Ta	181	γ, xn	15.4	516.	7.5				Pisma ZHETF,10,80(1969)	B.S.ISHKHANOV
				12.6	370.						
L0012014	73-Ta	181	γ, xn	15.42	510.2	8.	25.20	3799.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012014				12.43	371.						
	73-Ta	181	γ, xn	15.5	558.2	6.5				Izv.AN SSSR,31,336(1967)	G.P.ANTROPOV
				12.	354.						
	73-Ta	181	γ, xn	15.91	476.	8.	24.60	3062.		Phys.Rev.129,2723(1963)	R.L.BRAMBLETT
				12.84	300.						
	73-Ta	181	γ, xn	15.5	506.	7.	23.00	3700.		ZHETF,42,1502(1962)	BOGDANKEVICH
				12.4	420.						

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
	73-Ta	181	γ, xn	17.	388.9	8.	22.00	2970.		Nucl.Phys.32,236(1962)	J.MILLER
				13.	293.8						
	73-Ta	181	γ, xn	12.45	415.	6.5				Phys.Rev.112,560(1958)	E.G.FULLER
				15.45	410.						
L0012021	73-Ta	181	γ, sn	15.42	384.9	6.5	25.20	2983.	205.	Nucl.Phys.A121,463(1968)	R.BERGERE
L0012021				12.7	368.2						
L0003002	73-Ta	181	γ, sn	15.91	446.	5.5	24.60	2181.	149.	Phys.Rev.129,2723(1963)	R.L.BRAMBLETT
L0003002				12.814	300.						
	73-Ta	181	γ, sn	15.0	342.1	7.5	20.00	2300.		Izv.AN SSSR,31,336(1967)	G.P.ANTROPOV
				12.	316.						
L0012015	73-Ta	181	γ, n	12.7	367.1	5.	25.20	2180.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012015				14.06	356.2						
L0003003	73-Ta	181	γ, n	12.814	300.	4.	24.61	1300.		Phys.Rev.129,2723(1963)	R.L.BRAMBLETT
M0273011	73-Ta	181	γ, n	14.	80.	5.	18.00	396.5	29.3	Can.J.Phys.29,518(1951)	L.KATZ
L0012016	73-Ta	181	$\gamma, 2n$	16.5	158.7	4.5	25.20	790.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0003004	73-Ta	181	$\gamma, 2n$	15.91	196.	4.	24.61	881.		Phys.Rev.129,2723(1963)	R.L.BRAMBLETT
	73-Ta	181	$\gamma, 2n$	16.	252.8	4.5	20.00	1100.		Izv.AN SSSR,31,336(1967)	G.P.ANTROPOV
L0012017	73-Ta	181	$\gamma, 3n$	25.48	20.2	7.5	25.20	13.		Nucl.Phys.A121,463(1968)	R.BERGERE
L0012017							36.40	137.			
	74-W		γ, sn	15.2.	328.	2.7	21.30	2854.	203.	J.Physique,36,L-267(1975)	A.VEYSSIERE
				12.6	268.						
	74-W		γ, p	23.	4.3	>15	33.00	50.		ZHETF,17,547(1962)	V.G.SHEVCHENKO
				20.6	2.2						
	74-W	182	γ, abs	12.5	420.	7.5				Pisma ZHETF,23,411(1976)	G.M.GUREVICH
				15.	390.						
M0073010	74-W	182	γ, abs	12.83	401.	7.5	20.00	2860.	401.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
	74-W	182	γ, xn	14.9	412.	6.5	27.40	3680.		Yad.Fiz.17,3(1973)	YU.I.SOROKIN
				12.7	290.						
	74-W	182	γ, sn	14.9	390.	5.5	27.40	2780.		Yad.Fiz.17,3(1973)	YU.I.SOROKIN
				12.7	290.						
M0025002	74-W	182	γ, sn	15.02	427.5	6.	20.80	2885.9	202.3	Izv.AN KAZSSR,6,8(1978)	A.M.GORYACHEV
M0025002				13.02	420.9						
M0073011	74-W	184	γ, abs	12.02	416.	7.5	20.00	2780.	380.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073011				14.44	407.						
	74-W	184	γ, xn	15.2	525.	6.5	27.40	4880.		Yad.Fiz.17,3(1973)	YU.I.SOROKIN
				12.7	300.						
	74-W	184	γ, xn	15.6	640.	7.5				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				12.7	390.						
	74-W	184	γ, sn	14.3	400.	5.5	27.40	2950.		Yad.Fiz.17,3(1973)	YU.I.SOROKIN
				12.7	300.						
	74-W	184	γ, sn	15.6	412.	7.				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				12.7	390.						
M0025003	74-W	184	γ, sn	13.42	432.1	7.	20.80	2954.8	208.4	Izv.AN KAZSSR,6,8(1978)	A.M.GORYACHEV
M0025003				15.02	426.2						
M0073012	74-W	186	γ, abs	13.47	449.	7.5	20.00	2900.	395.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
	74-W	186	γ, xn	15.6	645.	6.5				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				12.7	400.						
L0016014	74-W	186	γ, xn	14.982	612.222	6.	28.60	4502.		Phys.Rev.185,1576(1969)	B.L.BERMAN
	74-W	186	γ, sn	12.7	400.	7.				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				14.9	385.						
L0016021	74-W	186	γ, sn	14.672	391.13	6.	28.60	3004.	203.	Phys.Rev.185,1576(1969)	B.L.BERMAN
M0025004	74-W	186	γ, sn	14.42	448.3	6.5	20.80	2974.2	210.4	Izv.AN KAZSSR,6,8(1978)	A.M.GORYACHEV
M0025004				12.82	428.1						
L0016015	74-W	186	γ, n	12.814	390.87	3.5	28.60	1655.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016016	74-W	186	$\gamma, 2n$	15.756	256.28	4.	28.60	1200.		Phys.Rev.185,1576(1969)	B.L.BERMAN
L0016017	74-W	186	$\gamma, 3n$	28.299	38.03	>8.	28.60	149.		Phys.Rev.185,1576(1969)	B.L.BERMAN
	75-Re		γ, sn	15.2	375.	2.8	21.60	3226.	227.	J.Physique,36,L-267(1975)	A.VEYSSIERE
				12.6	279.						
	75-Re	185	γ, xn	15.9	520.	7.				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				12.7	420.						
	75-Re	185	γ, sn	12.7	420.	6.				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				14.9	395.						
	75-Re	187	γ, xn	15.2	600.	7.				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				12.7	385.						
	75-Re	187	γ, sn	12.7	385.	6.				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				14.8	385.						
	76-Os		γ, xn	13.3	430.	5.	27.00	2700.		Austr.J.Phys.30,677(1977)	S.SU
L0046004	76-Os	186	γ, xn	15.88	450.96	7.	19.70	2964.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
	76-Os	186	γ, sn	15.88	450.96	6.	19.70	2508.	179.	Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046002	76-Os	186	γ, n	14.291	436.79	4.5	19.70	2040.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046003	76-Os	186	$\gamma, 2n$	16.613	145.44	4.	19.70	460.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046008	76-Os	188	γ, xn	15.513	561.	6.5	30.40	4731.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046008				22.356	184.91						
	76-Os	188	γ, sn	14.05	490.11	5.5	30.40	3613.	239.	Phys.Rev.C19,1205(1979)	B.L.BERMAN
				23.	130.						
L0046005	76-Os	188	γ, n	14.047	490.11	4.	30.40	2620.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046005				22.112	93.73						
L0046006	76-Os	188	$\gamma, 2n$	16.246	180.82	4.5	30.40	880.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046007	76-Os	188	$\gamma, 3n$	28.466	24.59	>8.	30.40	120.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046012	76-Os	189	γ, xn	15.269	615.68	5.5	29.90	4722.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
	76-Os	189	γ, sn	14.05	492.2.	4.5	29.90	3353.	228.	Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046009	76-Os	189	γ, n	14.047	492.2	3.	29.90	2130.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046009				22.112	64.6						
L0046010	76-Os	189	$\gamma, 2n$	16.002	227.96	4.	29.90	1000.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046011	76-Os	189	$\gamma, 3n$	26.022	37.14	7.5	29.90	210.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046016	76-Os	190	γ, xn	15.024	589.05	4.	30.40	4602.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
	76-Os	190	γ, xn	15.6	535.	8.				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				12.8	420.						
	76-Os	190	γ, sn	13.8	490.75	4.	30.40	3229.	220.	Phys.Rev.C19,1205(1979)	B.L.BERMAN
	76-Os	190	γ, sn	12.8	420.	6.				Yad.Fiz.17,463(1973)	A.M.GORYACHEV
				15.6	360.						
L0046013	76-Os	190	γ, n	13.802	490.75	4.	30.40	2010.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046014	76-Os	190	$\gamma, 2n$	16.124	224.	4.	30.40	1080.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046015	76-Os	190	$\gamma, 3n$	27.	30.35	5.5	30.40	140.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046020	76-Os	192	γ, xn	14.78	643.62	5.5	29.90	4900.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046020				24.067	199.18						
	76-Os	192	γ, sn	13.31	480.29	5.	29.90	3306.	224.	Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046017	76-Os	192	γ, n	13.314	480.29	3.5	29.90	1920.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046017				24.067	57.99						

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
L0046018	76-Os	192	$\gamma, 2n$	15.513	256.33	4.	29.90	1200.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
L0046019	76-Os	192	$\gamma, 3n$	27.489	35.01	7.	29.90	190.		Phys.Rev.C19,1205(1979)	B.L.BERMAN
	77-Ir		γ, sn	13.8	487.	5.1	21.90	2965.	211.	J.Physique,36,L-267(1975)	A.VEYSSIERE
M0049002	77-Ir	191	γ, xn	13.3	497.	7.5	20.30	3475.5	240.8	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0049002				15.9	480.						
M0049003	77-Ir	191	γ, sn	13.3	497.	5.	20.00	2757.	199.	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0008002	77-Ir	191	γ, sn	13.22	495.	5.	20.20	2580.4	205.9	Pisma ZHETF,26,107(1978)	A.M.GORYACHEV
M0049004	77-Ir	193	γ, xn	13.	551.	7.	20.20	3602.4	251.5	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0049004				15.6	539.						
M0049005	77-Ir	193	γ, sn	13.02	543.	5.	20.00	2835.	205.	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0008003	77-Ir	193	γ, sn	13.02	543.	4.5	20.20	2860.2	207.1	Pisma ZHETF,26,107(1978)	A.M.GORYACHEV
	78-Pt		γ, sn	13.7	512.	5.	20.30	3056.	228.	J.Physique,36,L-267(1975)	A.VEYSSIERE
M0049006	78-Pt	194	γ, xn	13.8	523.	7.	20.70	3457.4	239.4	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0049006				15.8	458.						
M0049007	78-Pt	194	γ, sn	13.8	523.	5.	20.00	2861.	210.	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0008004	78-Pt	194	γ, sn	13.82	511.1	5.	20.80	2867.4	204.5	Pisma ZHETF,26,107(1978)	A.M.GORYACHEV
M0049008	78-Pt	195	γ, xn	13.5	537.	7.	20.20	3392.9	238.2	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0049008				15.3	487.						
M0049009	78-Pt	195	γ, sn	13.5	537.	5.5	20.00	2797.	204.	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0008005	78-Pt	195	γ, sn	13.42	528.	5.	20.20	2835.3	206.1	Pisma ZHETF,26,107(1978)	A.M.GORYACHEV
M0049010	78-Pt	196	γ, xn	13.8	529.	6.5	20.80	3553.2	245.4	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0049010				15.6	504.						
M0049011	78-Pt	196	γ, sn	13.8	529.	4.5	20.00	2944.	213.	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0008006	78-Pt	196	γ, sn	13.82	522.5	5.	20.80	2864.3	205.3	Pisma ZHETF,26,107(1978)	A.M.GORYACHEV
M0049012	78-Pt	198	γ, xn	14.3	649.	6.	20.80	3990.1	277.3	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0049013	78-Pt	198	γ, sn	13.7	575.	5.	20.00	2813.	236.	Yad.Fiz.27,1479(1978)	A.M.GORYACHEV
M0008007	78-Pt	198	γ, sn	13.62	566.2	5.	20.80	3097.4	224.1	Pisma ZHETF,26,107(1978)	A.M.GORYACHEV
M0073013	79-Au	197	γ, abs	12.88	616.	5.5	20.00	3100.	437.	Nucl.Phys.A351,257(1981)	G.M.GUREVICH
M0073013				10.65	296.						
	79-Au	197	γ, abs	13.5	540.	5.5				Pisma ZHETF,23,411(1976)	G.M.GUREVICH
	79-Au	197	γ, xn	13.5	494.15		16.90	2606.		Bul.Am.Ph.Soc.31,855(1986)	B.L.BERMAN
	79-Au	197	γ, xn	13.6	590.	7.	27.00	4200.		Izv.AN SSSR,37,1891(1973)	YU.I.SOROKIN
	79-Au	197	γ, xn	13.79	528.7.	7.	21.70	3546.		Nucl.Phys.A159,561(1970)	A.VEYSSIERE
	79-Au	197	γ, xn	13.64	549.	7.	24.70	3744.		Phys.Rev.127,1273(1962)	S.C.FULTZ
	79-Au	197	γ, xn	14.	491.8	6.	22.00	3000.		Nucl.Phys.32,236(1962)	J.MILLER
	79-Au	197	γ, xn	13.6	590.	5.				Phys.Rev.112,560(1958)	E.G.FULLER
L0057011	79-Au	197	γ, xn	13.504	494.15	>6.	16.90	2606.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
	79-Au	197	γ, sn	13.73	502.	4.76				Phys.Rev.C36,1286(1987)	B.L.BERMAN
	79-Au	197	γ, sn	13.5	494.15		16.90	2491.	194.	Bul.Am.Ph.Soc.31,855(1986)	B.L.BERMAN
	79-Au	197	γ, sn	13.6	590.	4.5	27.00	3150.		Izv.AN SSSR,37,1891(1973)	YU.I.SOROKIN
L0021010	79-Au	197	γ, sn	13.52	532.1	5.	21.70	3067.	217.	Nucl.Phys.A159,561(1970)	A.VEYSSIERE
L0002002	79-Au	197	γ, sn	13.64‘	549.	4.	24.70	2967.	205.	Phys.Rev.127,1273(1962)	S.C.FULTZ
L0057009	79-Au	197	γ, n	13.504	494.15	>5.	16.90	1738.3	124.	Phys.Rev.C36,1286(1987)	B.L.BERMAN
	79-Au	197	γ, n	16.85	104.78		16.90	2376.		Bul.Am.Ph.Soc.31,855(1986)	B.L.BERMAN
L0021003	79-Au	197	γ, n	13.52	529.2	4.5	21.70	2588.		Nucl.Phys.A159,561(1970)	A.VEYSSIERE
L0002003	79-Au	197	γ, n	13.641	549.	4.5	24.70	2190.		Phys.Rev.127,1273(1962)	S.C.FULTZ
L0057010	79-Au	197	$\gamma, 2n$	16.851	104.78	>6.	16.90	115.3	7.1	Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0021004	79-Au	197	$\gamma, 2n$	16.78	106.7	7.	27.10	671.		Nucl.Phys.A159,561(1970)	A.VEYSSIERE
L0002004	79-Au	197	$\gamma, 2n$	17.329	136.	6.	24.7	777.		Phys.Rev.127,1273(1979)	S.C.FULTZ
	79-Au	197	$\gamma, 2n$	17.	105.	>5.	26.90	671.		Bul.Am.Ph.Soc.31,855(1986)	B.L.BERMAN
L0021005	79-Au	197	$\gamma, 3n$	27.12	13.6	>6.	27.10	24.		Nucl.Phys.A159,561(1970)	A.VEYSSIERE
	80-Hg		γ, sn	13.7	582.	4.4	21.10	3133.	227.	J.Physique,36,L-267(1975)	A.VEYSSIERE
	80-Hg	201	γ, p	26.	4.3	11.	32.00	40.		Phys.Rev.127,2198(1962)	J.H.CARVER
	81-Tl		γ, abs	14.	648.	4.6	27.00	3770.	266.	ZHETF,30,85591956)	B.I.GAVRILOV
	81-Tl	203	γ, sn	14.2	490.	3.7	20.00	2610.	185.	Izv.AN SSSR,34,116(1969)	G.P.ANTROPOV
	81-Tl	205	γ, sn	14.1	490.	3.7	20.00	2780.	187.	Izv.AN SSSR,34,116(1969)	G.P.ANTROPOV
	82-Pb		γ, xn	14.1	660.	5.5	24.00	3910.		J.Phys.Soc.Jap.25,655(1968)	T.TOMIMASU
	82-Pb		γ, xn	13.7	657.5	5.5	27.00	4100.		Nucl.Phys.32,236(1962)	J.MILLER
	82-Pb		γ, xn	13.4	670.	6.				J.Phys.Rad.,22,529(1961)	J.MILLER
L0057014	82-Pb		γ, xn	13.504	613.02	>5.	16.90	3192.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
	82-Pb		γ, sn	13.5	613.		16.90	3047.	249.	Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0057012	82-Pb		γ, n	13.504	613.28	4.2	16.90	2902.	137.9	Phys.Rev.C36,1286(1987)	B.L.BERMAN
L0057013	82-Pb		$\gamma, 2n$	16.851	93.56	>5.	16.90	145.		Phys.Rev.C36,1286(1987)	B.L.BERMAN
	82-Pb	206	γ, xn	13.4	460.	6.	27.00	3930.		Izv.AN SSSR,37,156(1973)	YU.I.SOROKIN
L0007002	82-Pb	206	γ, xn	13.743	530.	5.	26.40	3441.		Phys.Rev.B136,126(1964)	R.R.HARVEY
	82-Pb	206	γ, sn	13.4	460.	4.5	27.00	3210.		Izv.AN SSSR,37,156(1973)	YU.I.SOROKIN
L0007014	82-Pb	206	γ, sn	13.743	530.	4.	26.40	2909.	203.	Phys.Rev.B136,126(1964)	R.R.HARVEY
L0007003	82-Pb	206	γ, n	13.743	529.	4.	28.00	2220.		Phys.Rev.B136,126(1964)	R.R.HARVEY
L0007004	82-Pb	206	$\gamma, 2n$	18.233	82.	8.	28.00	560.		Phys.Rev.B136,126(1964)	R.R.HARVEY
L0007004				16.685	75.						
L0007004				17.304	81.						
L0007004				20.247	57.						
L0007005	82-Pb	207	γ, xn	13.743	500.	4.5	26.40	3267.		Phys.Rev.B136,126(1964)	R.R.HARVEY
L0007005				25.511	163.						
L0007015	82-Pb	207	γ, sn	13.743	500.	4.	26.40	2718.	191.	Phys.Rev.B136,126(1964)	R.R.HARVEY
L0007015				25.202	160.						
L0007006	82-Pb	207	γ, n	13.743	500.	4.	28.00	2050.		Phys.Rev.B136,126(1964)	R.R.HARVEY
L0007007	82-Pb	207	$\gamma, 2n$	17.459	94.	8.	28.00	600.		Phys.Rev.B136,126(1964)	R.R.HARVEY
M0345005	82-Pb	208	γ, xn	13.71	666.6	>5.	14.80	2096.5	167.9	Yad.Konst.1,52(1993)	V.V.VARLAMOV
	82-Pb	208	γ, xn	13.	510.	6.	27.00	4320.		Izv.AN SSSR,37,156(1973)	YU.I.SOROKIN
M0400002	82-Pb	208	γ, xn	13.355	884.367	4.5	17.20	3260.	242.8	Yad.Fiz.12,682(1970)	B.S.ISHKHANOV
M0400002				9.775	246.32						
M0400002				10.195	335.148						
M0400002				11.235	511.042						
M0400002				11.655	645.379						
M0400002				12.295	680.685						
M0400002				12.815	812.486						
M0400002				16.035	633.47						
	82-Pb	208	γ, xn	13.77	645.	4.	18.90	3387.		Nucl.Phys.A159,561(1970)	A.VEYSSIERE
M0399004	82-Pb	208	γ, xn	13.04	820.	4.5	16.50	3329.4	257.8	Pisma ZHETF,7,210(1968)	B.I.GORYACHEV
M0399004				12.46	650.						
M0399004				14.52	800.						
M0399004				15.39	710.						
L0007008	82-Pb	208	γ, xn	13.433	518.	4.	26.40	3496.		Phys.Rev.B136,126(1964)	R.R.HARVEY
M0399002	82-Pb	208	γ, xn	12.86	760.	4.5	22.00	4813.1	348.	Pisma ZHETF,7,210(1968)	B.I.GORYACHEV
M0399002				15.1	690.						
M0399002				16.48	470.						
M0399002				17.81	420.						
M0399002				20.85	280.						
M0345005	82-Pb	208	γ, sn	13.32	641.	>5.	14.80	2096.5	167.9	Yad.Konst.1,52(1993)	V.V.VARLAMOV
M0345005				9.99	158.2						

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
M0345005				11.31	354.8						
M0345005				13.32	641.						
	82-Pb	208	γ, sn	13.	510.	4.5	27.00	3280.		Izv.AN SSSR,37,156(1973)	YU.I.SOROKIN
L0021011	82-Pb	208	γ, sn	13.37	642.	4.	18.90	3059.	229.	Nucl.Phys.A159,561(1970)	A.VEYSSIERE
L0007016	82-Pb	208	γ, sn	13.433	518.	4.	26.40	2636.	189.	Phys.Rev.B136,B26(1964)	R.R.HARVEY
M0345005	82-Pb	208	γ, n	13.32	641.	>5.	14.80	2096.5	167.9	Yad.Konst.1,52(1993)	V.V.VARLAMOV
M0345005				9.99	158.2						
M0345005				11.31	354.8						
M0345005				13.32	641.						
L0021007	82-Pb	208	γ, n	13.5	645.	3.5	18.90	2731.		Nucl.Phys.A159,561(1970)	A.VEYSSIERE
L0007009	82-Pb	208	γ, n	13.433	518.	3.5	26.40	1776.		Phys.Rev.B136,126(1964)	R.R.HARVEY
L0007009							28.00	1960.			
M0367008	82-Pb	208	γ, n	13.56	618.89	4.5	21.20	2909.8	215.4	Izv.AN SSSR,55,953(1991)	S.N.BELJAEV
M0367008				7.58	58.23						
M0367008				10.05	147.68						
L0059004	82-Pb	208	γ, n	13.34	651.96	4.	14.90	2090.	165.	T,YOUNG,72	L.M.YOUNG
L0059004				10.005	133.41						
L0059004				11.305	320.35						
L0021008	82-Pb	208	$\gamma, 2n$	16.53	92.	8.	18.90	328.		Nucl.Phys.A159,561(1970)	A.VEYSSIERE
L0021008							21.67	52.			
L0007010	82-Pb	208	$\gamma, 2n$	16.995	127.	9.	26.40	860.		Phys.Rev.B136,126(1964)	R.R.HARVEY
L0021009	82-Pb	208	$\gamma, 3n$	29.95	23.	11.	37.80	197.		Nucl.Phys.A159,561(1970)	A.VEYSSIERE
	82-Pb	208	γ, p	24.8	3.1					Nucl.Phys.A246,365(1975)	K.SHODA
	83-Bi	209	γ, abs	13.5	630.	4.5				Pisma ZHETF,23,411(1976)	G.M.GUREVICH
	83-Bi	209	γ, xn	14.	625.	5.5	27.00	4600.		Izv.AN SSSR,37,1891(1973)	YU.I.SOROKIN
L0007011	83-Bi	209	γ, xn	13.588	544.	5.5	26.40	3772.		Phys.Rev.B136,126(1964)	R.R.HARVEY
	83-Bi	209	γ, xn	13.9	537.	5.9	27.00	3960.		ZHETF,30,855(1957)	B.I.GAVRILOV
	83-Bi	209	γ, xn	14.5	743.8	5.				Izv.AN SSSR,31,336(1967)	G.P.ANTROPOV
	83-Bi	209	γ, xn	13.9	656.9	6.	22.00	3730.		Nucl.Phys.32,236(1962)	J.MILLER
	83-Bi	209	γ, sn	13.6	625.	4.5	27.00	3470.		Izv.AN SSSR,37,1891(1973)	YU.I.SOROKIN
L0007017	83-Bi	209	γ, sn	13.588	544.	4.	26.40	3058.	214.	Phys.Rev.B136,126(1964)	R.R.HARVEY
	83-Bi	209	γ, sn	13.8	537.	4.8	27.00	3120.		ZHETF,30,855(1957)	B.I.GAVRILOV
	83-Bi	209	γ, sn	14.5	682.3	5.	20.00	3400.		Izv.AN SSSR,31,336(1967)	G.P.ANTROPOV
L0007012	83-Bi	209	γ, n	13.588	544.	3.5	26.40	2344.		Phys.Rev.B136,126(1964)	R.R.HARVEY
L0059005	83-Bi	209	γ, n	13.115	658.82	4.5	14.80	2129.	170.	T,YOUNG,72	L.M.YOUNG
L0059005				11.757	362.82						
L0007013	83-Bi	209	$\gamma, 2n$	17.614	121.	8.	26.40	714.		Phys.Rev.B136,126(1964)	R.R.HARVEY
M0195002	88-Ra	226	γ, F	15.	.95	5.5	20.00	5.2	.4	Yad.Fiz.13,934(1971)	E.A.ZHAGROV
M0015002	89-Ac	227	γ, F	14.	3.02	>6.	15.50	13.3	1.1	Yad.Fiz.27,301(1978)	V.E.ZHUCHKO
M0090002	90-Th	232	γ, abs	13.5	469.	6.	18.00	2920.	231.	Nucl.Phys.A273,326(1976)	G.M.GUREVICH
M0090002				11.7	401.						
	90-Th	232	γ, abs	13.5	480.	6.				Pisma ZHETF,20,741(1974)	G.M.GUREVICH
				10.9	190.						
L0050005	90-Th	232	γ, xn	14.34	969.84	6.	18.30	5606.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0031002	90-Th	232	γ, xn	14.43	747.	7.	16.30	3888.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0031002				11.18	429.						
	90-Th	232	γ, sn	14.34	549.	4.8	18.30	3483.	276.	Phys.Rev.C21,1215(1980)	J.T.CALDWELL
				11.27	443.41						
L0031014	90-Th	232	γ, sn	13.89	436.	7.5	16.30	2705.	228.	Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0031014				11.72	394.						
L0050002	90-Th	232	γ, n	11.27	443.41	5.	18.30	1660.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0031003	90-Th	232	γ, n	11.45	373.	5.5	16.30	1730.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0031003		232		13.89	183.						
L0031003		232		15.79	81.						
L0050003	90-Th	232	$\gamma, 2n$	14.34	348.52	4.5	18.30	1450.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0031004	90-Th	232	$\gamma, 2n$	14.97	243.	4.5	16.30	787.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
M0491002	90-Th	232	γ, F	14.2	54.		102.00	1024.7	28.8	Nucl.Phys.A472,533(1987)	A.LEPRETRE
M0449002	90-Th	232	γ, F	11.5	33.5		11.90	98.	10.4	Phys.Rev.C34,1397(1986)	H.X.ZHANG
M0449002				6.2	15.5						
L0050004	90-Th	232	γ, F	14.34	63.93	7.	18.30	370.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050004				6.39	12.44						
L0031005	90-Th	232	γ, F	14.16	46.	7.	16.30	188.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0031005				10.94	23.						
	90-Th	232	γ, F	14.5	48.	6.	19.00	320.		Yad.Fiz.13,934(1971)	E.A.ZHAGROV
L0058004	92-U	233	γ, xn	13.85	1528.	7.	17.80	9000.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
	92-U	233	γ, sn	13.85	483.	7.	17.80	3024.	239.	Phys.Rev.C34,2201(1986)	B.L.BERMAN
				11.4	421.						
L0058003	92-U	233	γ, n	11.4	134.	3.	17.80	580.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058003				16.79	63.						
L0058002	92-U	233	γ, F	13.85	419.	6.	17.80	2444.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058007	92-U	234	γ, xn	14.33	1421.	7.	18.30	8676.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058007				11.39	998.						
	92-U	234	γ, sn	11.88	482.	6.	18.30	3317.	270.	Phys.Rev.C34,2201(1986)	B.L.BERMAN
				13.84	464.						
L0058006	92-U	234	γ, n	11.88	249.	5.	18.30	1060.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058005	92-U	234	γ, F	14.33	384.	6.5	18.30	2260.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058005				11.39	250.						
M0090003	92-U	235	γ, abs	13.4	487.	7.	18.00	2990.	238.	Nucl.Phys.A273,326(1976)	G.M.GUREVICH
M0090003				11.2	450.						
	92-U	235	γ, abs	13.6	460.	7.				Pisma ZHETF,20,741(1974)	G.M.GUREVICH
				11.	430.						
L0050009	92-U	235	γ, xn	13.84	1486.9	7.	18.30	8889.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
	92-U	235	γ, snf	10.9	364.	2.5	19.00	3560.	303.	J.Physique,24,974(1964)	P.BOUNIN
	92-U	235	γ, sn	14.34	520.	6.	18.30	3497.	277.	Phys.Rev.C21,1215(1980)	J.T.CALDWELL
				10.9	488.						
L0050006	92-U	235	γ, n	10.9	264.8	3.5	18.30	1140.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050007	92-U	235	$\gamma, 2n$	14.83	63.4	5.	18.30	202.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050007				17.28	52.5						
M0503002	92-U	235	γ, F	13.5	336.33	4.	20.00	1791.	116.7	Phys.Rev.C29,2346(1984)	H.RIES
L0050008	92-U	235	γ, F	13.84	390.1	5.5	18.30	2160.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
M0300002	92-U	235	γ, F	13.9	331.04	7.5	104.40	3706.9	191.7	CDFE/Fis2,87	V.V.VARLAMOV
L0050013	92-U	236	γ, xn	14.338	1205.5	6.5	18.30	7168.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050013				11.886	778.7						
	92-U	236	γ, sn	14.34	455.	6.	18.30	3156.	252.	Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050010	92-U	236	γ, n	11.395	290.9	4.	18.30	1256.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050011	92-U	236	$\gamma, 2n$	14.828	125.6	3.	18.30	450.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050011				13.847	122.5						
L0050012	92-U	236	γ, F	14.338	252.5	7.	18.30	1450.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050012				11.886	156.2						

EXFOR	Nucl	A	Reac	E_{max} MeV	σ_{max} mb	FWHM MeV	E_{int} MeV	σ_{int} MeV * mb	σ^1_{int} mb	Reference	Author
M0090004	92-U	238	γ, abs	13.6	441.	6.5	18.00	2950.	229.	Nucl.Phys.A273,326(1976)	G.M.GUREVICH
M0090004				11.1	399.						
M0090004				22.7	149.						
	92-U	238	γ, abs	13.5	450.	6.5				Pisma ZHETF,20,741(1974)	G.M.GUREVICH
				10.9	400.						
L0050017	92-U	238	γ, xn	14.338	1221.81	7.	18.30	7465.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050017				11.395	750.76						
	92-U	238	γ, xn	14.02	1100.	6.5	18.30	6351.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
				11.31	600.						
	92-U	238	γ, sn	13.48	519.	7.	18.30	3575.	286.	Phys.Rev.C21,1215(1980)	J.T.CALDWELL
				11.4	481.						
L0031015	92-U	238	γ, sn	14.02	435.	6.5	18.30	3017.	242.	Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0031015				11.31	416.						
L0050014	92-U	238	γ, n	11.395	374.71	3.	18.30	1358.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0031011	92-U	238	γ, n	11.31	317.	3.	18.30	1199.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0050015	92-U	238	$\gamma, 2n$	13.479	280.79	3.	18.30	1132.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0031012	92-U	238	$\gamma, 2n$	14.29	207.	4.5	18.30	899.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
M0491004	92-U	238	γ, F	25.	35.2		104.00	1421.7	28.9	Nucl.Phys.A472,533(1987)	A.LEPRETRE
M0503003	92-U	238	γ, F	15.	149.22	5.	30.00	943.7	59.3	Phys.Rev.C29,2346(1984)	H.RIES
M0503003				12.	86.53						
L0050016	92-U	238	γ, F	14.338	175.58	8.5	18.30	1085.		Phys.Rev.C21,1215(1980)	J.T.CALDWELL
L0050016				11.395	113.1						
M0017007	92-U	238	γ, F	13.9	162.	6.	20.00	1104.1	81.	Yad.Fiz.30,910(1979)	I.S.KORECKAYA
	92-U	238	γ, F	14.	152.	6.5				Phys.Rev.C14,1499(1976)	ARRUDA-NeTO
L0031013	92-U	238	γ, F	14.02	154.	7.	18.30	919.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0031013				11.04	90.						
	92-U	238	γ, F	14.	110.	6.4	19.00	760.		Yad.Fiz.13,334(1971)	E.A.ZHAGROV
M0300003	92-U	238	γ, F	14.4	164.55	7.	105.00	2574.7	113.7	CDFE/Fis2,87	V.V.VARLAMOV
M0300003				11.4	102.27						
L0058011	93-Np	237	γ, xn	14.34	1790.	7.	18.30	10909.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058011				11.4	1195.						
L0031006	93-Np	237	γ, xn	14.43	1376.	7.	16.60	7792.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
				11.4	441.						
L0031006				11.18	987.						
	93-Np	237	γ, sn	14.34	590.	6.5	18.30	3799.	298.	Phys.Rev.C34,2201(1986)	B.L.BERMAN
				11.4	481.						
	93-Np	237	γ, sn	14.43	472.	7.	16.60	2795.	233.	Nucl.Phys.A199,45(1973)	A.VEYSSIERE
				11.18	396.						
L0058008	93-Np	237	γ, n	12.38	212.	5.5	18.30	1172.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0031007	93-Np	237	γ, n	12.26	211.	7.	16.60	1013.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0058009	93-Np	237	$\gamma, 2n$	14.34	130.	5.	18.30	349.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0031008	93-Np	237	$\gamma, 2n$	16.06	73.	>5.	16.60	121.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0058010	93-Np	237	γ, F	13.85	350.	6.	18.30	2278.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058010				11.4	280.						
L0031009	93-Np	237	γ, F	14.16	290.	7.	16.60	1661.		Nucl.Phys.A199,45(1973)	A.VEYSSIERE
L0031009				11.18	220.						
M0090005	94-Pu	239	γ, abs	13.4	447.	6.	18.00	2970.	232.	Nucl.Phys.A273,326(1976)	G.M.GUREVICH
	94-Pu	239	γ, abs	12.	450.	6.				Pisma ZHETF,20,741(1974)	G.M.GUREVICH
L0058015	94-Pu	239	γ, xn	13.84	1674.	6.5	17.80	9806.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058015				11.88	1336.						
	94-Pu	239	γ, sn	11.4	515.	5.5	17.80	2930.	235.	Phys.Rev.C34,2201(1986)	B.L.BERMAN
				13.8	474.						
L0058012	94-Pu	239	γ, n	11.39	208.	3.5	17.80	631.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058013	94-Pu	239	$\gamma, 2n$	13.35	64.	3.5	17.80	153.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058014	94-Pu	239	γ, F	13.84	359.	6.5	17.80	2146.		Phys.Rev.C34,2201(1986)	B.L.BERMAN
L0058014				11.88	293.						
	94-Pu	240	γ, F	14.5	340.	7.1				Phys.Rev.C23,2104(1981)	H.THIERENS
	94-Pu	244	γ, F	14.	250.	7.1	30.00	1860.		Phys.Rev.C27,1117(1983)	H.THIERENS
M0017005	95-Am	241	γ, F	14.	336.	7.	20.00	2291.	169.3	Yad.Fiz.30,910(1979)	I.S.KORECKAYA
M0017006	95-Am	243	γ, F	13.9	350.	8.	20.00	2228.1	174.	Yad.Fiz.30,910(1979)	I.S.KORECKAYA