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**PLOTS OF THE EXPERIMENTAL AND EVALUATED
PHOTONEUTRON CROSS-SECTIONS**

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Abstract

Graphical plots of experimental data of photon induced nuclear reaction cross-sections are given for many elements and isotopes. The numerical data were taken from the international EXFOR data library which is available from the nuclear data centers. For selected nuclides evaluated data have been included in the plots.

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Introduction

Experimental and evaluated data for photonuclear cross-sections are presented graphically in this report. The data are given in the order of increasing atomic and mass-numbers. Processes included are (γ,n) , $(\gamma,2n)$, (γ,f) and a few others.

The experimental data have been taken from the international EXFOR data library. For the evaluated data the results obtained in the Nuclear Data Centre (CDJ, Obninsk) are used. The plotted data are tagged by a mnemonic consisting of year, laboratory, name of first author. The corresponding reference can be found in the bibliographic information. The tables 1 and 2 consist the adopted values of threshold energies (G,N) , $(G,2N)$ and $(G,Fiss)$ reactions. In table 3 the laboratory and country code mnemonics are given.

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The EXFOR data have been compiled by

- the US National Nuclear Data Center, Brookhaven:
entry numbers starting with C or L;
- the USSR Photonuclear Data Center, Moscow State University:
entry numbers starting with M or O.

BIBLIOGRAPHIC INFORMATION

Yr	Lab	Author	Reference	Process	Entry/Sub
3-LI-6					
56	CBR	EDGE R. D.	J, AUJ, 9, 429, 56	(G, N)	03003002
64	PEN	GREEN L. +	J, PR, 135, (3B), B701, 64	(G, N)	02018002
64	FTI	BAZHANOV E. B. +	J, ZET, 46, 1497, 64	(G, N)	M0106002
65	LRL	BERMAN B. L. +	J, PRL, 15, 727, 6511	(G, N)	C7008003
66	TUP	COSTA S. +	J, NC/B, 42, (2), 382, 66	(G, N)	03037002
65	LRL	BERMAN B. L. +	J, PRL, 15, 727, 6511	(G, 2N)	C7008004
59	CSE	ROMANOWSKI T. A. +	J, PR, 113, (3), 886, 59	(G, X)	02005003
63	TUP	COSTA S. +	J, PL, 4, (5), 308, 63	(G, X)	02012003
65	NBS	HAUWARD E. +	J, NP, 69, 241, 65	(G, X)	02025002
65	FTI	BAZHANOV E. B. +	J, NP, 68, 191, 65	(G, X)	M0107002
65	LRL	BERMAN B. L. +	J, PRL, 15, 727, 6511	(G, X)	L0008002
84	WAI	DYCLEWSKY N. +	J, NP, 430, 214, 84	(G, X)	03088002
3-LI-7					
58	SAS	RYBKA T. W. +	J, PR, 110, (5), 1123, 58	(G, N)	02004003
63	TUP	COSTA S. +	J, PL, 6, (2), 226, 63	(G, N)	02013002
64	PEN	GREEN L. +	J, PR, 135, (3B), B701, 64	(G, N)	03027003
73	LRL	BRAMBLETT R. L. +	C, 73PACIFI, 1, 75, 7303	(G, N)	C7030003
73	LRL	BRAMBLETT R. L. +	C, 73PACIFI, 1, 75, 7303	(G, 2N)	C7030004
59	CSE	ROMANOVSKI T. A. +	J, PR, 113, (3), 886, 59	(G, X)	02005005
60	VIR	FAST R. W. +	J, PR, 118, (2), 535, 60	(G, X)	02006002
64	AML	ALLUM F. R. +	J, NP, 51, 177, 64	(G, X)	02020004
65	NBS	HAUWARD E. +	J, NP, 69, 241, 65	(G, X)	02025004
66	FTI	BAZHANOV E. B. +	J, DOK, 171, (3), 546, 66	(G, X)	M0109002
73	LRI	BRAMBLETT R. L. +	C, 73PACIFI, 1, 75, 7303	(G, X)	C7030002
73	LRI	BRAMBLETT R. L. +	C, 73PACIFI, 1, 75, 7303	(G, X)	L0030002
6-C-12					
66	LRL	FULTZ S. C. +	J, PR, 143, 790, 6603	(G, N)	C7010003
66	LRL	FULTZ S. C. +	J, PR, 143, 790, 6603	(G, X)	C7010002
7-N-14					
70	LRL	BERMAN B. L. +	J, PR/C, 2, 2318, 7012	(G, N)	C7019003
70	LRL	BERMAN B. L. +	J, PR/C, 2, 2318, 7012	(G, X)	C7019002

BIBLIOGRAPHIC INFORMATION (cont.)

Yr	Lab	Author	Reference	Process	Entry/Sub
8-0-16					
85	SGU	BELJAEV S. N. +	J, YF, 42, 1050, 85	(G, N)	M0146005
64	LRL	BRAMBLETT R. L. +	J, PR/B, 133, 869, 6401	(G, X)	L0005002
65	LRL	CALDWELL J. T. +	J, PRL, 15, 976, 6512	(G, X)	L0036002
11-NA-23					
71	LRL	ALVAREZ R. A. +	J, PR/C, 4, 1673, 7111	(G, N)	C7022003
71	LRL	ALVAREZ R. A. +	J, PR/C, 4, 1673, 7111	(G, 2N)	C7022004
13-AL-27					
66	LRL	FULTZ S. C. +	J, PR, 143, 790, 6603	(G, N)	C7010005
66	LRL	FULTZ S. C. +	J, PR, 143, 790, 6603	(G, X)	L0010004
14-SI-28					
63	LRL	CALDWELL J. T. +	J, PL, 6, 213, 6309	(G, X)	C7004002
23-V-51					
62	LRL	FULTZ S. C. +	J, PR, 128, 2345, 6212	(G, N)	C7001003
62	LRL	FULTZ S. C. +	J, PR, 128, 2345, 6212	(G, 2N)	C7001004
62	LRL	FULTZ S. C. +	J, PR, 128, 2345, 6212	(G, X)	C7001002
24-CR					
77	AML	WEI SE J. +	J, AUJ, 30, 401, 77	(G, N)	00004002
24-CR-52					
69	MOS	GORYACHEV B. I. +	J, IZV, 33, (10), 1736, 69	(G, N)	M0093003
25-MN-55					
73	LRL	ALVAREZ R. A. +	C, 73PACIFI, 1, 545, 7303	(G, N)	C7028003
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, N)	C7999010
73	LRL	ALVAREZ R. A. +	C, 73PACIFI, 1, 545, 7303	(G, 2N)	C7028004
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, 2N)	C7999011
26-FE-56					
77	JIA	RATHER B. S. +	J, NP/A, 285, 71, 7702	(G, N)	M0024005
26-FE-54					
77	JIA	RATHER B. S. +	J, NP/A, 285, 71, 7702	(G, N)	M0024002
77	JIA	RATHER B. S. +	J, NP/A, 285, 71, 7702	(G, N)	M0024003
77	JIA	RATHER B. S. +	J, NP/A, 285, 71, 7702	(G, N)	M0024004

BIBLIOGRAPHIC INFORMATION (cont.)

Yr	Lab	Author	Reference	Process	Entry/Sub
27-CO-59					
62	LRL	FULTZ S. C. +	J, PR, 128, 2345, 6212	(G, N)	C7001006
64	FTI	BAZHANOV E. B. +	J, ZET, 46, 1497, 64	(G, N)	MO106003
79	LRL	ALVAREZ R. A. +	J, PR/C, 20, 128, 7907	(G, N)	L0028008
79	LRL	ALVAREZ R. A. +	J, PR/C, 20, 128, 7907	(G, 2N)	L0028009
62	LRL	FULTZ S. C. +	J, PR, 128, 2345, 6212	(G, X)	70001005
64	FTI	BAZHANOV E. B. +	J, ZET, 46, 1497, 64	(G, X)	MO106004
79	LRL	ALVAREZ R. A. +	J, PR/C, 20, 128, 7907	(G, X)	L0028006
79	LRL	BERMAN B. L. +	P, UCRL-78482, (SUPPL.), 7906	(G, X)	C7999013
29-CU					
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, N)	C7006003
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, 2N)	C7006004
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, X)	L0006002
29-CU-63					
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, N)	C7006009
68	GA	SUND R. E. +	J, PR, 176, 1366, 6812	(G, N)	C7013002
79	JIA	DZHI LAVJAN L. Z. +	J, YF, 30, 2(8), 294, 79	(G, N)	MO026002
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, 2N)	C7006010
68	GA	SUND R. E. +	J, PR, 176, 1366, 6812	(G, 2N)	C7013003
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, X)	L0006005
29-CU-65					
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, N)	L0006009
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, 2N)	L0006010
64	LRL	FULTZ S. C. +	J, PR/B, 133, 1149, 6403	(G, X)	L0006008
32-GE-73					
80	SGU	GORYACHEV A. M. +	J, IZK, 6, 16, 80	(G, N)	MO042004
82	SGU	GORYACHEV A. M. +	J, VTYF, 8, 121, 82	(G, N)	MO070009
32-GE-76					
82	SGU	GORYACHEV A. M. +	J, VTYF, 8, 121, 82	(G, N)	MO070011
34-SE-78					
82	SGU	GORYACHEV A. M. +	J, VTYF, 8, 121, 82	(G, N)	MO070015

BIBLIOGRAPHIC INFORMATION (cont.)

Yr	Lab	Author	Reference	Process	Entry/Sub
34-SE-80					
82	SGU	GORYACHEV A. M. +	J, VTYF, 8, 121, 82	(G, N)	MO070016
40-ZR-90					
67	LRL	BERMAN B. L. +	J, PR, 162, 1098, 6710	(G, N)	C7011006
67	LRL	BERMAN B. L. +	J, PR, 162, 1098, 6710	(G, 2N)	C7011007
41-NB-93					
71	SAC	LEPRETRE A. +	J, NP/A, 175, 609, 7111	(G, N)	L0027015
71	SAC	LEPRETRE A. +	J, NP/A, 175, 609, 7111	(G, 2N)	L0027016
71	SAC	LEPRETRE A. +	J, NP/A, 175, 609, 7111	(G, X)	L0027014
42-MO-92					
74	SAC	BEIL H. +	J, NP/A, 227, 427, 74	(G, N)	L0032002
74	SAC	CARLOS P. +	J, NP/A, 219, 61, 7402	(G, 2N)	C7032004
42-MO-94					
74	SAC	BEIL H. +	J, NP/A, 227, 427, 74	(G, N)	L0032005
74	SAC	CARLOS P. +	J, NP/A, 219, 61, 7402	(G, 2N)	C7032007
42-MO-96					
74	SAC	CARLOS P. +	J, NP/A, 219, 61, 7402	(G, N)	C7032009
74	SAC	BEIL H. +	J, NP/A, 227, 427, 74	(G, N)	L0032008
74	SAC	CARLOS P. +	J, NP/A, 219, 61, 7402	(G, 2N)	C7032010
42-MO-98					
74	SAC	BEIL H. +	J, NP/A, 227, 427, 74	(G, N)	L0032012
74	SAC	BEIL H. +	J, NP/A, 227, 427, 74	(G, 2N)	L0032014
42-MO-100					
74	SAC	BEIL H. +	J, NP/A, 227, 427, 74	(G, N)	L0032016
74	SAC	BEIL H. +	J, NP/A, 227, 427, 74	(G, 2N)	L0032018
47-AG					
74	SAC	LEPRETRE A. +	J, NP/A, 219, 39, 7401	(G, N)	C7035. 009
74	SAC	LEPRETRE A. +	J, NP/A, 219, 39, 7401	(G, 2N)	C7035. 010
74	SAC	LEPRETRE A. +	J, NP/A, 219, 39, 7401	(G, X)	C7035. 008
47-AG-107					
69	LRL	BERMAN B. L. +	J, PR, 177, 1745, 6901	(G, N)	C7014006
69	LRL	BERMAN B. L. +	J, PR, 177, 1745, 6901	(G, 2N)	C7014007
69	LRL	BERMAN B. L. +	J, PR, 177, 1745, 6901	(G, X)	C7014005

BIBLIOGRAPHIC INFORMATION (cont.)

Yr	Lab	Author	Reference	Process	Entry/Sub
49-IN-115					
69	LRL	FULTZ S. C. +	J, PR, 186, 1255, 6910	(G, N)	C7017003
74	SAC	LEPRETRE. A +	J, NP/A, 219, 39, 7401	(G, N)	C7035015
69	LRL	FULTZ S. C. +	J, PR, 186, 1255, 6910	(G, 2N)	C7017004
74	SAC	LEPRETRE. A +	J, NP/A, 219, 39, 7401	(G, 2N)	C7035016
69	LRL	FULTZ S. C. +	J, PR, 186, 1255, 6910	(G, X)	L0017002
74	SAC	LEPRETRE. A +	J, NP/A, 219, 39, 7401	(G, X)	L0035014
56-BA-138					
70	LRL	BERMAN B. L. +	J, PR/C, 2, 2318, 7012	(G, N)	C7019005
70	LRL	BERMAN B. L. +	J, PR/C, 2, 2318, 7012	(G, 2N)	C7019006
70	LRL	BERMAN B. L. +	J, PR/C, 2, 2318, 7012	(G, X)	C7019004
59-PR-141					
66	LRL	BRAMBLETT R. L. +	J, PR, 148, 1198, 6608	(G, N)	C7009006
70	GGA	SUND R. E. +	J, PR/C, 2, 1129, 7009	(G, N)	L0020002
71	SAC	BEIL H. +	J, NP/A, 172, 426, 7109	(G, N)	C7024012
66	LRL	BRAMBLETT R. L. +	J, PR, 148, 1198, 6608	(G, 2N)	C7009007
66	LRL	BRAMBLETT R. L. +	J, PR, 148, 1198, 6608	(G, X)	L0009005
71	SAC	BEIL H. +	J, NP/A, 172, 426, 7109	(G, X)	C7024011
60-ND-142					
71	SAC	CARLOS P. +	J, NP/A, 172, 437, 7109	(G, N)	C7025003
71	SAC	CARLOS P. +	J, NP/A, 172, 437, 7109	(G, 2N)	C7025004
71	SAC	CARLOS P. +	J, NP/A, 172, 437, 7109	(G, X)	L0025002
62-SM-144					
74	SAC	CARLOS P. +	J, NP/A, 225, 171, 7406	(G, N)	C7033003
74	SAC	CARLOS P. +	J, NP/A, 225, 171, 7406	(G, 2N)	C7033004
74	SAC	CARLOS P. +	J, NP/A, 225, 171, 7406	(G, X)	L0033002
65-TB-159					
64	LRL	BRAMBLETT R. L. +	J, PR/B, 133, 869, 6401	(G, N)	C7005004
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, N)	M0057003
64	LRL	BRAMBLETT R. L. +	J, PR/B, 133, 869, 6402	(G, 2N)	C7005005
64	LRL	BRAMBLETT R. L. +	J, PR/B, 133, 869, 6402	(G, X)	L0005003
67-HO-165					
68	SAC	BERGERE R. +	J, NP/A, 121, 463, 6807	(G, N)	C7012011
69	LRL	BERMAN B. L. +	J, PR, 185, 1576, 6909	(G, N)	C7016011

BIBLIOGRAPHIC INFORMATION (cont.)

Yr	Lab	Author	Reference	Process	Entry/Sub
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, N)	M0057004
68	SAC	BERGERE R. +	J, NP/A, 121, 463, 6807	(G, 2N)	C7012012
69	LRL	BERMAN B. L. +	J, PR, 185, 1576, 6909	(G, 2N)	C7016012
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, 2N)	M0057005
68	SAC	BERGERE R. +	J, NP/A, 121, 463, 6807	(G, X)	L0012010
69	LRL	BERMAN B. L. +	J, PR, 185, 1576, 6909	(G, X)	L0016010
68-ER-166					
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, 2N)	M0057008
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, N)+(G, 2N)	M0057007
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, N)+(G, 2N)	M0057009
68-ER-168					
81	JIA	GUREVICH G. M. +	J, NP, 257, 81	(G, TOT)	M0073005
78	JIA	GUREVICH G. M. +	J, ZEP, 28, 168, 78	(G, ABS)	M0014004
72-HF-178					
77	SAR	GORYACHEV A. M. +	J, YF, 26, 465, 77	(G, N)	M0007003
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, 2N)	M0057011
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, N)+(G, 2N)	M0057010
76	MOS	GORYACHEV B. I. +	J, YF, 23, 1145, 76	(G, N)+(G, 2N)	M0057012
76	JIA	GUREVICH G. M. +	J, ZEP, 23, 411, 76	(G, TOT)	M0056003
81	JIA	GUREVICH G. M. +	J, NP, 257, 81	(G, TOT)	M0073007
73-TA-181					
63	LRL	BRAMBLETT R. L. +	J, PR, 129, 2723, 6303	(G, N)	C7003003
68	SAC	BERGERE R. +	J, NP/A, 121, 463, 6807	(G, N)	C7012015
85	SGU	BELJAEV S. N. +	J, YF, 42, 1050, 85	(G, N)	M0146007
63	LRL	BRAMBLETT R. L. +	J, PR, 129, 2723, 6303	(G, 2N)	C7003004
68	SAC	BERGERE R. +	J, NP/A, 121, 463, 6807	(G, 2N)	C7012016
68	SAC	BERGERE R. +	J, NP/A, 121, 463, 6807	(G, 3N)	C7012017
63	LRL	BRAMBLETT R. L. +	J, PR, 129, 2723, 6303	(G, X)	C7003002
68	SAC	BERGERE R. +	J, NP/A, 121, 463, 6807	(G, X)	C7012014
63	LRL	BRAMBLETT R. L. +	J, PR, 129, 2723, 6303	(G, X)	L0003002
68	SAC	BERGERE R. +	J, NP/A, 121, 463, 6807	(G, X)	L0012014
76	JIA	GUREVICH G. M. +	J, ZEP, 23, 411, 76	(G, TOT)	M0056005
80	JIA	GUREVICH G. M. +	J, NP/A, 338, 97, 80	(G, ABS)	M0041009

BIBLIOGRAPHIC INFORMATION (cont.)

Yr	Lab	Author	Reference	Process	Entry/Sub
			74-W-182		
78	SAR	GORJACHEV A. M. +	J, IZK, 6, 8, 78	(G, N)	M0025002
81	JIA	GUREVICH G. M.	J, NP, 257, 81	(G, TOT)	M0073010
			74-W-184		
78	SAR	GORJACHEV A. M. +	J, IZK, 6, 8, 78	(G, N)	M0025003
81	JIA	GUREVICH G. M.	J, NP, 257, 81	(G, TOT)	M0073011
			74-W-186		
78	SAR	GORJACHEV A. M. +	J, IZK, 6, 8, 78	(G, N)	M0025004
81	JIA	GUREVICH G. M.	J, NP, 257, 81	(G, TOT)	M0073012
			82-PB-208		
64	LRL	HARVEY R. R. +	J, PR/B, 136, 126, 6410	(G, N)	C7007009
70	SAC	VEYSSIERE A. +	J, NP/A, 159, 561, 7012	(G, N)	L0021007
84	SGU	BELJAEV S. N. +	J, IZV, 48, (10), 1940, 84	(G, N)	M0127003
85	SGU	BELJAEV S. N. +	J, YF, 42, 1050, 85	(G, N)	M0146004
64	LRL	HARVEY R. R. +	J, PR/B, 136, 126, 6410	(G, 2N)	C7007010
70	SAC	VEYSSIERE A. +	J, NP/A, 159, 561, 7012	(G, 2N)	C7021008
64	LRL	HARVEY R. R. +	J, PR/B, 136, 126, 6410	(G, X)	L0007008
70	SAC	VEYSSIERE A. +	J, NP/A, 159, 561, 7012	(G, X)	C7021006
			83-BI-209		
64	LRL	HARVEY R. R. +	J, PR/B, 136, 126, 6410	(G, N)	C7007012
84	SGU	BELJAEV S. N. +	J, IZV, 48, (10), 1940, 84	(G, N)	M0127004
85	SGU	BELJAEV S. N. +	J, YF, 42, 1050, 85	(G, N)	M0146006
64	LRL	HARVEY R. R. +	J, PR/B, 136, 126, 6410	(G, 2N)	C7007013
76	JIA	GUREVICH G. M. +	J, ZEP, 23, 411, 76	(G, TOT)	M0056008
			90-TH-232		
73	SAC	VEYSSIERE A. +	J, NP/A, 199, 45, 7301	(G, N)	C7031003
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, N)	C7999037
73	SAC	VEYSSIERE A. +	J, NP/A, 199, 45, 7301	(G, 2N)	C7031004
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, 2N)	C7999038
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, F)	C7999039
			92-U-233		
78	IFP	OSTAPENKO JU. B. +	P, YK-3(30), 3, 78	(G, F)	M0004005
			92-U-234		
80	IFP	LINDGREN L. J. +	J, YF, 32, 335, 80	(G, F)	M0037003

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Yr	Lab	Author	Reference	Process	Entry/Sub
			92-U-235		
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, N)	C7999041
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, 2N)	C7999042
78	IFP	ZHUCHKO V. E. +	J, YF, 28, 1170, 78	(G, F)	C7999042
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, F)	C7999043
76	JIA	GUREVICH G. M. +	J, NP/A, 275, 326, 76	(G, TOT)	M0090003
			92-U-236		
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, N)	C7999045
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, 2N)	C7999046
78	IFP	ZHUCHKO V. E. +	J, YF, 28, 1185, 78	(G, F)	M0079007
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, F)	C7999047
			92-U-238		
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, N)	C7999049
73	SAC	VEYSSIERE A. +	J, NP/A, 199, 45, 7301	(G, 2N)	C7031012
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, 2N)	C7999050
79	LRL	BERMAN B. L.	P, UCRL-78482, (SUPPL.), 7906	(G, F)	C7999051
79	JIA	KORECKAJA I. S. +	J, YF, 30, 910, 79	(G, F)	M0017007
76	JIA	GUREVICH G. M. +	J, NP/A, 275, 326, 76	(G, TOT)	M0090004
			93-NP-237		
73	SAC	VEYSSIERE A. +	J, NP/A, 199, 45, 7301	(G, N)	L0031006
83	IFE	CESAR M. T. F. +	W, CESAR KHOURI, 830524	(G, N)	G0002004
73	SAC	VEYSSIERE A. +	J, NP/A, 199, 45, 7301	(G, 2N)	C7031008
73	SAC	VEYSSIERE A. +	J, NP/A, 199, 45, 7301	(G, F)	C7031009
78	IFP	ZHUCHKO V. E.	J, YF, 28, 1170, 78	(G, F)	M0078022
83	IFE	CESAR M. T. F. +	W, CESAR KHOURI, 830524	(G, F)	G0002003
			94-PU-239		
78	IFP	ZHUCHKO V. E. +	J, YF, 28, 1170, 78	(G, F)	M0078024
76	JIA	GUREVICH G. M. +	J, NP/A, 275, 326, 76	(G, TOT)	M0090005
			94-PU-241		
78	IFP	ZHUCHKO V. E. +	J, YF, 28, 1170, 78	(G, F)	M0078026
			95-AM-241		
78	IFP	OSTAPENKO JU. B. +	P, YK-3(30), 3, 78	(G, F)	M0004019
79	JIA	KORETSKAYA I. S. +	J, YF, 30, 910, 79	(G, F)	01135005
			95-AM-243		
79	JIA	KORETSKAYA I. S. +	J, YF, 30, 910, 79	(G, F)	M0017006

Table 1. Threshold energies of
(G,N) and (G,2N) reactions

Nuclide	Abundance	(G,N) (Mev)	(G,2N) (Mev)
3-Li - 6	7.5%	5.660	27.180
3-Li - 7	92.5%	7.2506	12.910
4-Be- 9	100%	1.6651	20.5653
6-C - 12	98.90%	18.7219	31.8461
7-N	-	10.5536	21.387
7-N - 14	99.634%	10.5536	30.623
7-N - 15	0.366%	10.833	21.387
8-O	-	4.142	19.811
8-O - 16	99.762%	15.6694	28.8886
8-O - 17	0.038%	4.142	19.811
9-F - 19	100%	10.430	19.581
11-Na- 23	100%	12.4178	23.489
13-Al - 27	100%	13.0580	24.4261
14-Si	-	8.473	19.083
14-Si - 28	92.23%	17.1774	30.488
14-Si - 29	4.67%	8.473	25.651
14-Si - 30	3.10%	10.609	19.083
15-P - 31	100%	12.307	23.633
16-S - 32	95.02%	15.088	28.093
18-Ar- 36	0.337%	15.253	27.979
19-K - 39	93.26%	13.085	25.150
23-V - 51	99.750%	11.0524	20.3846
24-Cr	-	7.9405	17.6607
24-Cr- 50	4.345%	12.940	23.583
24-Cr- 52	83.789%	12.0407	21.3026
24-Cr- 53	9.501%	7.9405	19.9812
24-Cr- 54	2.365%	9.7202	17.6607
25-Mn- 55	100%	10.224	19.1670
26-Fe	-	7.6462	17.6891
26-Fe- 54	5.8%	13.3820	24.062
26-Fe- 56	91.72%	11.2027	20.5011
26-Fe- 57	2.2%	7.6462	18.8489
26-Fe- 58	0.28%	10.0430	17.6891

Table 1. (Continued).

Nuclide	Abundance	(G,N) (Mev)	(G,2N) (Mev)
27-Co- 59	100%	10.4602	19.0321
28-Ni	-	7.8195	16.5008
28-Ni - 58	68.27%	12.203	22.470
28-Ni - 60	26.10%	11.3883	20.3876
28-Ni - 61	1.13%	7.8195	19.2078
28-Ni - 62	3.59%	10.5966	18.4161
28-Ni - 64	0.91%	9.6596	16.5008
29-Cu	-	9.9047	17.8208
29-Cu- 63	69.17%	10.854	19.7489
29-Cu- 65	30.83%	9.9047	17.8208
32-Ge- 73	7.8%	6.784	17.5336
32-Ge- 76	7.8%	9.443	15.9333
34-Se- 78	23.6%	10.497	17.9156
34-Se- 80	49.7%	9.896	16.8737
35-Br- 79	50.69%	10.693	18.981
36-Kr- 82	11.6%	10.980	18.839
40-Zr	-	7.2026	14.3065
40-Zr- 90	51.45%	11.983	21.290
40-Zr- 91	11.22%	7.2026	19.185
40-Zr- 92	17.15%	8.6351	15.8377
40-Zr- 94	17.38%	8.191	14.9495
40-Zr- 96	2.80%	7.832	14.3065
41-Nb- 93	100%	8.826	16.719
42-Mo	-	6.8161	14.2175
42-Mo- 92	14.84%	12.692	22.787
42-Mo- 94	9.25%	9.6722	17.7449
42-Mo- 95	15.92%	7.3751	17.047
42-Mo- 96	16.68%	9.1542	16.5293
42-Mo- 97	9.55%	6.8161	15.9703
42-Mo- 98	24.13%	8.6424	15.4584
42-Mo-100	9.63%	8.301	14.2175
46-Pd-110	11.72%	8.806	14.957

Table 1. (Continued).

Nuclide	Abundance	(G, N) (Mev)	(G, 2N) (Mev)
47-Ag	-	9. 188	16. 457
47-Ag-107	51. 839%	9. 551	17. 473
47-Ag-109	46. 161%	9. 188	16. 457
49-In-115	95. 7%	9. 029	16. 343
51-Sb-121	57. 3%	9. 248	16. 251
54-Xe-128	1. 91%	9. 614	16. 839
56-Ba-137	11. 23%	6. 902	16. 009
56-Ba-138	71. 70%	8. 6115	15. 5136
58-Ce-140	88. 48%	9. 203	16. 650
59-Pr-141	100%	9. 397	17. 325
60-Nd-142	27. 13%	9. 813	17. 880
62-Sm-144	3. 1%	10. 554	19. 000
65-Tb-159	100%	8. 136	14. 890
67-Ho-165	100%	7. 989	14. 674
68-Er-168	27. 1%	7. 7714	14. 2076
72-Hf-178	27. 297%	7. 626	14. 0068
72-Hf-179	13. 629%	6. 0995	13. 7256
74-W	-	6. 1914	12. 9518
74-W -182	26. 3%	8. 054	14. 700
74-W -183	14. 3%	6. 1914	14. 246
74-W -184	30. 67%	7. 4111	13. 6025
74-W -186	28. 6%	7. 2020	12. 9518
82-Pb	-	6. 7409	14. 1091
82-Pb-204	1. 4%	8. 401	15. 189
82-Pb-206	24. 1%	8. 081	14. 8152
82-Pb-207	22. 1%	6. 7409	14. 822
82-Pb-208	52. 4%	7. 3682	14. 1091
83-Bi -209	100%	7. 453	14. 359

Table 2. Threshold energies of
(G,N) , (G,2N) and (G,F) reactions

Nuclide	Abundance	(G,N) (Mev)	(G,2N) (Mev)	(G,F) (Mev)
90-Th-232	100%	6.434	11.563	5.40
92-U -233	1.592E+5 y	5.743	13.010	5.18
92-U -234	2.45E+5 y	6.8408	12.583	5.06
92-U -235	0.7200%	5.306	12.1471	5.31
92-U -238	99.2745%	6.1436	11.2682	5.08
93-Np-237	2.14E+6 y	6.619	12.3106	5.70
94-Pu-239	24119 y	5.656	12.654	5.31
94-Pu-241	14.35 y	5.2406	11.7740	5.34
95-Am-241	432.2 y	6.660	12.598	6.00
95-Am-243	7380 y	6.377	11.9053	6.03

Table 3. LABORATORY & COUNTRY CODE MNEMONICS

Code	Country	Laboratory
AML	AUL	UNI V. OF MELBOURNE, MELBOURNE
CBR	AUL	AUSTRALIAN NATIONAL UNI V. , CANBERRA
CSE	USA	CASE WESTERN RESERVE UNI V. , CLEVELAND, OHIO
FEI	USSR	FIZIKO-ENERGETICHESKI J INST. , ORJANSK
FTI	USSR	A. F. IOFFE PHYSIKO-TECHNICAL INST. , LENINGRAD & GATCHINA
GA	USA	GULF ENERGY AND ENVIRONMENTAL SYSTEMS, SAN DIEGO, CAL.
IFP	USSR	INST. FIZICHESKIKH PROBLEM, MOSCOW
IPE	BZL	INST. DE PESQUISAS ENERGETICAS E NUCLEARES, SAO PAULO
JIA	USSR	INST. OF NUCLEAR RESEARCH, ACAD. SCI. U. S. S. R.
LRL	USA	LAWRENCE LIVERMORE NATIONAL LABORATORY, CALIFORNIA
MOS	USSR	MOSCOW STATE UNI V. , NUCLEAR PHYSICS INST. , MOSCOW
NBS	USA	NATL. BUREAU OF STANDARDS, WASHINGTON, D. C.
PEN	USA	UNI V. OF PENNSYLVANIA, PHILADELPHIA, PENNSYLVANIA
SAC	FR	C. E. N. SACLAY
SAR	USSR	SARATOV GOSUDARSTVENNYJ UNI V. , SARATOV
SGU	USSR	SARATOV GOSUDARSTVENNYJ UNI V. , SARATOV STATE UNI V.
SAS	CAN	UNI V. OF SASKATCHEWAN, SASKATOON, SASK.
TUP	ITY	POLITECNICO DI TORINO
UFT	USSR	UKRAINIAN PHYSICAL-TECHNOLOGICAL INST. , KHARKOV
VIR	USA	UNI V. OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA
WAI	AUL	WESTERN AUSTRALIAN INST. OF TECH. , WEST BENTLEY

R E F E R E N C E S

LO001 1USALRL

S. C. FULTZ, R. L. BRAMBLETT, J. T. CALDWELL, N. E. HANSEN, C. P. JUPITER.
PHOTONEUTRON CROSS SECTIONS FOR V-51 AND CO-59.
J, PR, 128, 2345, 6212

LO003 1USALRL

R. L. BRAMBLETT, J. T. CALDWELL, G. F. AUCHAMPAUGH, S. C. FULTZ.
PHOTONEUTRON CROSS SECTIONS OF TA-181 AND HO-165
J, PR, 129, 2723, 6303.

LO005 1USALRL

R. L. BRAMBLETT, J. T. CALDWELL, R. R. HARVEY, S. C. FULTZ.
PHOTONEUTRON CROSS SECTIONS OF TB-159 AND O-16.
J, PR/B, 133, 869, 6402.

LO006 1USALRL

S. C. FULTZ, R. L. BRAMBLETT, J. T. CALDWELL, R. R. HARVEY.
PHOTONEUTRON CROSS SECTIONS FOR NATURAL CU, CU-63,
AND CU-65. J, PR/B, 133, 1149, 6403.

LO008 1USALRL

B. L. BERMAN, R. L. BRAMBLETT, J. T. CALDWELL, R. R. HARVEY, S. C. FULTZ.
PHOTONEUTRON CROSS SECTIONS OF LI-6.
J, PRL, 15, 727, 6511.

LO012 2FR SAC

R. BERGERE, H. BEIL, A. VEYSSIERE.
PHOTONEUTRON CROSS SECTIONS OF LA, TB, HO AND TA.
J, NP/A, 121, 463, 6807.

LO016 1USALRL

B. L. BERMAN, M. A. KELLY, R. L. BRAMBLETT, J. T. CALDWELL, H. S. DAVIS,
S. C. FULTZ.
GIANT RESONANCE IN DEFORMED NUCLEI, PHOTONEUTRON CROSS
SECTIONS FOR EU-153, GD-160, HO-165, AND W-186.
J, PR, 185, 1576, 6909.

LO027 2FR SAC

A. LEPRETRE, H. BEIL, R. BERGERE, P. CARLOS, A. VEYSSIERE, M. SUGAWARA.
THE GIANT DIPOLE STATES IN THE A = 90 MASS REGION.
J, NP/A, 175, 609, 7111.

LO028 1USALRL (CONVERTED FROM BERMAN COMPILATION)

R. A. ALVAREZ, B. L. BERMAN, D. D. FAUL, F. H. LEWIS JR, P. MEYER.
PHOTONEUTRON CROSS SECTIONS FOR 55MN AND 59CO.
J, PR/C, 20, 128, 7907. C, 73PACIFI, 1, 545, 7303.
C, 73PACIFI, 1, 547, 7303.

LO030 1USALRL

R. L. BRAMBLETT, B. L. BERMAN, M. A. KELLY, J. T. CALDWELL,
S. C. FULTZ.
PHOTONEUTRON CROSS SECTIONS FOR 7-LI.
C, 73PACIFI, 1, 175, 7303.

LO031 2FR SAC

A. VEYSSIERE, H. BEIL, R. BERGERE, P. CARLOS, A. LEPRETRE.
A STUDY OF THE PHOTOFISSION AND PHOTONEUTRON PROCESSES
IN THE GIANT DIPOLE RESONANCE OF 232-TH, 238-U AND 237-NP
J, NP/A, 199, 45, 7301.

LO032 2FR SAC (CONVERTED FROM BERMAN COMPILATION)

H. BEIL, R. BERGERE, P. CARLOS, A. LEPRETRE, A. DE MINAC,
A. VEYSSIERE.
A STUDY OF THE PHOTONEUTRON CONTRIBUTION TO THE GIANT
DIPOLE RESONANCE IN DOUBLY EVEN MO ISOTOPES
J, NP/A, 227, 427, 74. J, NP/A, 219, 61, 7402.

LO035 2FR SAC (CONVERTED FROM BERMAN COMPILATION)

A. LEPRETRE, H. BEIL, R. BERGERE, P. CARLOS, A. DEMINAC, A. VEYSSIERE.
A STUDY OF THE GIANT DIPOLE RESONANCE OF VIBRATIONAL
NUCLEI IN THE 103-A-133 MASS REGION
J, NP/A, 219, 39, 7401.

L0036 1USALRL (DATA MOVED FROM DATA SET L0005)
 J. T. CALDWELL, R. L. BRAMBLETT, B. L. BERMAN, R. R. HARVEY, S. C. FULTZ.
 CROSS SECTIONS FOR THE GROUND AND EXCITED-STATE NEUTRON
 GROUPS IN THE REACTION O16 GAMMA, N. 015.
 J, PRL, 15, 976, 6512.

C7001 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 S. C. FULTZ, R. L. BRAMBLETT, J. T. CALDWELL, N. E. HANSEN, C. P. JUPITER.
 PHOTONEUTRON CROSS SECTIONS FOR V-51 AND CO-59
 J, PR, 128, 2345, 6212.

C7003 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 R. L. BRAMBLETT, J. T. CALDWELL, G. F. AUCHAMPAUGH, S. C. FULTZ.
 PHOTONEUTRON CROSS SECTIONS OF TA-181 AND HO-165
 J, PR, 129, 2723, 6303.

C7004 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 J. T. CALDWELL, R. R. HARVEY, R. L. BRAMBLETT, S. C. FULTZ.
 G, N. CROSS SECTIONS FOR O-16 AND SI-28
 J, PL, 6, 213, 6309.

C7005 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 R. L. BRAMBLETT, J. T. CALDWELL, R. R. HARVEY, S. C. FULTZ.
 PHOTONEUTRON CROSS SECTIONS OF TB-159 AND O-16.
 J, PR/B, 133, 869, 6402. J, PRL, 15, 976, 6512.

C7006 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 S. C. FULTZ, R. L. BRAMBLETT, J. T. CALDWELL, R. R. HARVEY.
 PHOTONEUTRON CROSS SECTIONS FOR NATURAL CU, CU-63,
 AND CU-65. J, PR/B, 133, 1149, 6403.

C7007 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 R. R. HARVEY, J. T. CALDWELL, R. L. BRAMBLETT, S. C. FULTZ.
 PHOTONEUTRON CROSS SECTIONS OF PB-206, PB-207, PB-208
 AND BI-209. J, PR/B, 136, 126, 6410.

C7008 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 B. L. BERMAN, R. L. BRAMBLETT, J. T. CALDWELL, R. R. HARVEY, S. C. FULTZ.
 PHOTONEUTRON CROSS SECTIONS OF LI-6. J, PRL, 15, 727, 6511.

C7010 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 S. C. FULTZ, J. T. CALDWELL, B. L. BERMAN, R. L. BRAMBLETT, R. R. HARVEY.
 PHOTONEUTRON CROSS SECTIONS FOR C-12 AND AL-27.
 J, PR, 143, 790, 6603.

C7012 2FR SAC (CONVERTED FROM BERMAN COMPILATION)
 R. BERGERE, H. BEIL, A. VEYSSIERE.
 PHOTONEUTRON CROSS SECTIONS OF LA, TB, HO AND TA.
 J, NP/A, 121, 463, 6807.

C7013 1USAGA (CONVERTED FROM BERMAN COMPILATION)
 R. E. SUND, M. P. BAKER, L. A. KULL, R. B. WALTON.
 MEASUREMENTS OF THE 63-CU G, N. AND G, 2N. CROSS SECTIONS.
 J, PR, 176, 1366, 6812.

C7014 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 B. L. BERMAN, R. L. BRAMBLETT, J. T. CALDWELL, H. S. DAVIS, M. A. KELLY,
 S. C. FULTZ.
 PHOTONEUTRON CROSS SECTIONS FOR AS-75, AG-107, AND CS-133.
 J, PR, 177, 1745, 6901.

C7016 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 B. L. BERMAN, M. A. KELLY, R. L. BRAMBLETT, J. T. CALDWELL, H. S. DAVIS,
 S. C. FULTZ.
 GIANT RESONANCE IN DEFORMED NUCLEI, PHOTONEUTRON
 CROSS SECTIONS FOR EU-153, GD-160, HO-165, AND W-186.
 J, PR, 185, 1576, 6909.

C7019 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 B. L. BERMAN, S. C. FULTZ, J. T. CALDWELL, M. A. KELLY, S. S. DIETRICH.
 PHOTONEUTRON CROSS SECTIONS FOR BA-138 AND N-14.
 J, PR/C, 2, 2318, 7012.

C7022 1USALRL (CONVERTED FROM BERMAN COMPILATION)
 R. A. ALVAREZ, B. L. BERMAN, D. R. LASHER, T. W. PHILLIPS, S. C. FULTZ.
 PHOTONEUTRON CROSS SECTIONS FOR 23-NA AND 25-MG.
 J, PR/C, 4, 1673, 7111.

C7028 1USALRL (CONVERTED FROM BERMAN COMPILATION)

R. A. ALVAREZ, B. L. BERMAN, F. H. LEWIS, P. MEYER.

PHOTONEUTRON CROSS SECTIONS FOR 55-MN.

C, 73PACIFI, 1, 545, 7303.

C7030 1USALRL (CONVERTED FROM BERMAN COMPILATION)

R. L. BRAMBLETT, B. L. BERMAN, M. A. KELLY, J. T. CALDWELL, S. C. FULTZ.

PHOTONEUTRON CROSS SECTIONS FOR 7-LI.

C, 73PACIFI, 1, 175, 7303.

C7031 2FR SAC (CONVERTED FROM BERMAN COMPILATION)

A. VEYSSIERE, H. BEIL, R. BERGERE, P. CARLOS, A. LEPRETRE.

A STUDY OF THE PHOTOFISSION AND PHOTONEUTRON PROCESSES
IN THE GIANT DIPOLE RESONANCE OF 232-TH, 238-U AND 237-NP
J, NP/A, 199, 45, 7301.

C7032 2FR SAC (CONVERTED FROM BERMAN COMPILATION)

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A SEMI-PHENOMENOLOGICAL DESCRIPTION OF THE GIANT DIPOLE
RESONANCE WIDTH. J, NP/A, 219, 61, 7402.

C7035 2FR SAC (CONVERTED FROM BERMAN COMPILATION)

A. LEPRETRE, H. BEIL, R. BERGERE, P. CARLOS, A. DEMINIAC,
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A STUDY OF THE GIANT DIPOLE RESONANCE OF VIBRATIONAL
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C7999 1USALRL (DATA CONVERTED FROM BERMAN'S COMPILATION)

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ATLAS OF PHOTONEUTRON CROSS SECTIONS OBTAINED WITH
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P, UCRL-78482, SUPPL., 7906.

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YIELDS AND CROSS SECTIONS OF PHOTOFISSION FOR ISOTOPES
TH, U, NP, AM IN ENERGY RANGE FROM 4.5 MEV TO 7.0 MEV.
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M0017 4CCPJI A

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INTERMEDIATE STRUCTURE OF THE GIANT DIPOLE RESONANCE
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A. M. GORJACHEV, G. N. ZALESNYJ.

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SHAPE OF TRANSITIONAL NUCLEI WITH A=170-198
J, IZK, 6, 8, 78.

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STUDY OF THE CROSS SECTION OF THE REACTION CU-63 G, N.
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IN ENERGY RANGE 12 TO 25 MEV.
J, YF, 30, 2 8., 294, 79.

M0037 4CCPIFP

L. J. LINDGREN, A. S. SOLDATOV, JU. M. CIPENJUK.

UNDER-BARRIER PHOTOFISSION OF U-234.
J, YF, 32, 335, 80.

MO041 4CCPJI A

G. M. GUREVICH, L. E. LAZAREVA, V. M. MAZUR, S. JU. MERKULOV,
G. V. SOLODUKHOV.

TOTAL PHOTOABSORPTION CROSS SECTIONS FOR HIGH-Z ELEMENTS
IN THE ENERGY RANGE 7-20 MEV. J, NP/A, 338, 97, 80.

MO056 4CCPJI A

G. M. GUREVICH, L. E. LAZAREVA, V. M. MAZUR, G. V. SOLODUKHOV.

ABOUT THE WIDTH OF GIANT RESONANCE IN THE G-QUANTA ABSORP-
TION CROSS SECTIONS IN THE RANGE OF NUCLEI WITH $A=150-200$.
J, ZEP, 23, 411, 76.

MO057 4CCPMOS

B. I. GORYACHEV, JU. V. KUZNETSOV, V. N. ORLIN, N. A. POZHIDAEVA,
V. G. SHEVCHENKO.

GIANT RESONANCE IN STRONGLY DEFORMED NUCLEI TB-159, HO-165,
ER-166 AND HF-178. J, YF, 23, 1145, 76.

MO073 4CCPJI A

G. M. GUREVICH, L. E. LAZAREVA, V. M. MAZUR, S. JU. MERKULOV,
G. V. SOLODUKHOV, V. A. TYUTIN.

TOTAL NUCLEAR PHOTOABSORPTION CROSS SECTIONS
IN THE REGION $150 < A < 190$.
J, NP, 257, 81.

MO078 4CCPIFP+FEI

V. E. ZHUCHKO, JU. B. OSTAPENKO, G. N. SMIRENKIN, A. S. SOLDATOV,
JU. M. TSI PENYUK.

INVESTIGATION OF PROBABILITY OF THE NEAR-THRESHOLD FISSION
OF TH, U, NP, PU, AM ISOTOPES BY BREMSSTRAHLUNG G QUANTA.
J, YF, 28, 1170, 78.

MO079 4CCPIFP+FEI

V. E. ZHUCHKO, JU. B. OSTAPENKO, G. N. SMIRENKIN, A. S. SOLDATOV,
JU. M. TSI PENYUK.

EXPERIMENTAL INVESTIGATIONS OF THE EFFECT OF THE
'ISOMER SHELF' IN PHOTOFISSION CROSS SECTIONS OF HEAVY
NUCLEI. J, YF, 28, 1185, 78.

MO090 4CCPJI A

G. M. GUREVICH, L. E. LAZAREVA, V. M. MAZUR, G. V. SOLODUKHOV,
B. A. TULUPOV.

GIANT RESONANCE IN THE TOTAL PHOTOABSORPTION CROSS
SECTION NEAR OF Z=90 NUCLEI.
J, NP/A, 275, 326, 76.

MO093 4CCPMOS

B. I. GORYACHEV, B. S. ISHKHANOV, I. M. KAPITONOV, I. M. PISKAREV,
V. G. SHEVCHENKO, O. P. SHEVCHENKO.

THE STRUCTURE OF PHOTONEUTRON CROSS SECTIONS OF V-51, CR-52,
CO-59 IN THE AREA OF GIANT DIPOLE RESONANCE.
J, IZV, 33, 10, 1736, 69.

MO106 4CCPFTI

E. B. BAZHANOV, A. P. KOMAR, A. V. KULIKOV.

PHOTONEUTRONS FROM LI-6 AND CO-59.
J, ZET, 46, 1497, 64.

MO107 4CCPFTI

E. B. BAZHANOV, A. P. KOMAR, A. V. KULIKOV, E. D. MAKHOVSKI J.

LI-6 PHOTODISINTEGRATION.
J, NP, 68, 191, 65.

MO109 4CCPFTI

E. B. BAZHANOV, A. P. KOMAR, A. V. KULIKOV.

CROSS SECTION OF THE PHOTONEUTRON REACTIONS ON LI-7.
J, DOK, 171, 3, 549, 66.

MO127 4CCPSGU

S. N. BELJAEV, O. V. VASIL'EV, A. B. KOZIN, A. A. NECHKIN,
V. A. SEMENOV.

THE STRUCTURE OF CROSS SECTIONS OF GAMMA, N. REACTION
ON PB-206 AND PB-208 ISOTOPES.
J, IZV, 48, 10, 1940, 84.

MO146 4CCPSGU

S. N. BELJAEV, A. B. KOZIN, A. A. NECHKIN, V. A. SEMENOV, S. F. SEMENKO.
ON PHOTOABSORPTION CROSS SECTIONS OF PR, BI AND TA ISOTOPES
IN THE ENERGY REGION EN-GAMMA < 12 MEV. J, YF, 42, 1050, 85.

MO159 4CCPUFT

E. A. SKAKUN, V. G. BATI J, JU. V. VLADIMIROV, JU. N. RAKI VVENKO,
JU. N. RANJUK, O. A. RASTREPIN.
ELECTRO- AND PHOTODISINTEGRATION ON NB-93 NUCLEI IN ENERGY
RANGE 0.1-1.2 GEV. J, IZV, 49, 2252, 85.

00004 3AULAML+2JAPTOH

J. WEISE, M. N. THOMPSON, K. SHODA, H. TSUBOTA.
THE CHROMIUM PHOTONEUTRON CROSS SECTION.
J, AUJ, 30, 401, 77.

01135 4CCPJIA

I. S. KORETSKAYA, V. L. KUZNETSOV, L. E. LAZAREVA, V. G. NEDOREZOV,
N. V. NIKITINA.
PHOTOFISSION CROSS SECTIONS FOR THE NUCLEI AM-241 AND AM-243
IN REGION OF THE E1 GIANT RESONANCE. J, YF, 30, 910, 79.

02004 1CANSAS

T. W. RYBKA, L. KATZ.
PHOTONEUTRON REACTIONS IN LITHIUM
J, PR, 110, 5, 1123, 58.

02005 1USACSE

T. A. ROMANOWSKI, V. H. VOELKER.
PHOTONEUTRON CROSS SECTIONS OF LI-6 AND LI-7.
J, PR, 113, 3, 886, 59.

02006 1USAVIR

R. W. FAST, P. A. FLOURNOY, R. S. TICKLE, W. D. WHITEHEAD.
PHOTONEUTRON CROSS SECTIONS OF LI, N, AND AR.
J, PR, 118, 2, 535, 60.

02012 2ITYTUP+GVA

S. COSTA, S. FERRONI, V. WATAGHIN, R. MALVANO.
ON THE PHOTO-DISINTEGRATION OF LI-6.
J, PL, 4, 5, 308, 63.

02013 2ITYTUP+GVA

S. COSTA, F. FERRERO, S. FERRONI, B. MINETTI, C. MOLINO, R. MOLVANO.
LIGHT ELEMENT PHOTONEUTRON PRODUCTION IN THE 0-80 MEV ENERGY
RANGE. J, PL, 6, 2, 226, 63.

02018 1USAPEN

L. GREEN, D. J. DONAHUE.
PHOTONEUTRON CROSS SECTIONS WITH MONOENERGETIC NEUTRON-
CAPTURE GAMMA RAYS. J, PR, 135, 3B, B701, 64.

02020 3AULAML

F. R. ALLUM, G. M. CRAWLEY, B. M. SPICER.
THE EMISSION OF PHOTONEUTRONS FROM NATURAL LITHIUM
J, NP, 51, 177, 64.

02025 1USANBS

E. HAYWARD, T. STOVALL.
PHOTONEUTRON PRODUCTION BY LI-6, LI-7, B-10, B-11 AND O-16.
J, NP, 69, 241, 65.

03003 3AULCBB

R. D. EDGE.
NEUTRON EXPERIMENTS WITH A SENSITIVE SZILARD-CHALMERS
DETECTOR. J, AUJ, 9, 429, 56.

03027 1USAPEN

L. GREEN, D. J. DONAHUE.
PHOTONEUTRON CROSS SECTIONS WITH MONOENERGETIC NEUTRON-
CAPTURE GAMMA RAYS. J, PR, 135, 3B, B701, 64.

03037 2ITYTUP

S. COSTA, F. FERRERO, C. MANFREDOTTI, L. PASQUALINI, L. ROASIO.
PHOTODISINTEGRATION OF LI-6. J, NC/B, 42, 2, 382, 66.

03088 3AULWAI

N. DYTLEWSKY, S. A. SIDDIQUI, H. H. THIES.
THE PHOTONEUTRON CROSS SECTION OF 6-LI. J, NP, 430, 214, 84.











































































