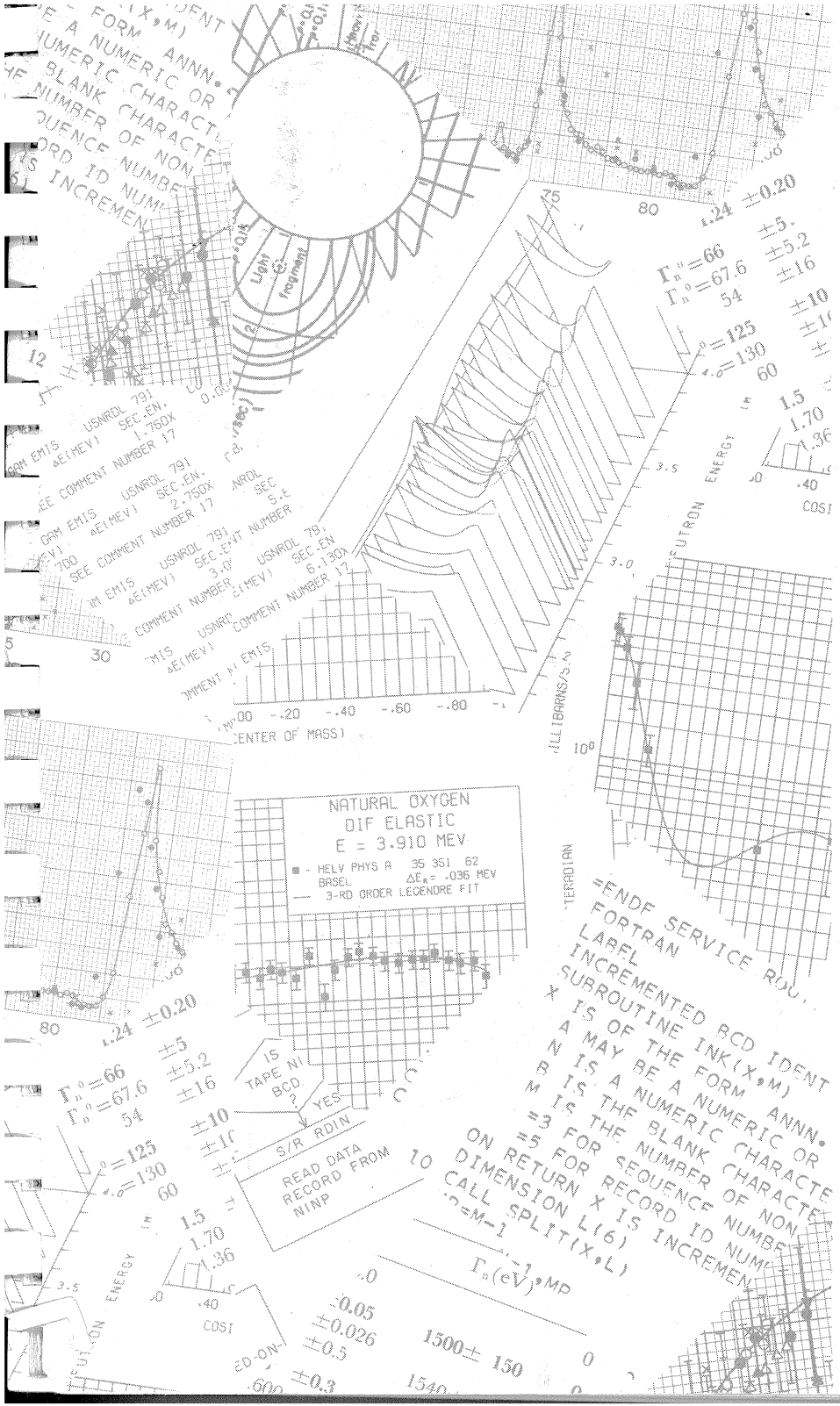

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D.I. GARBER AND R.R. KINSEY

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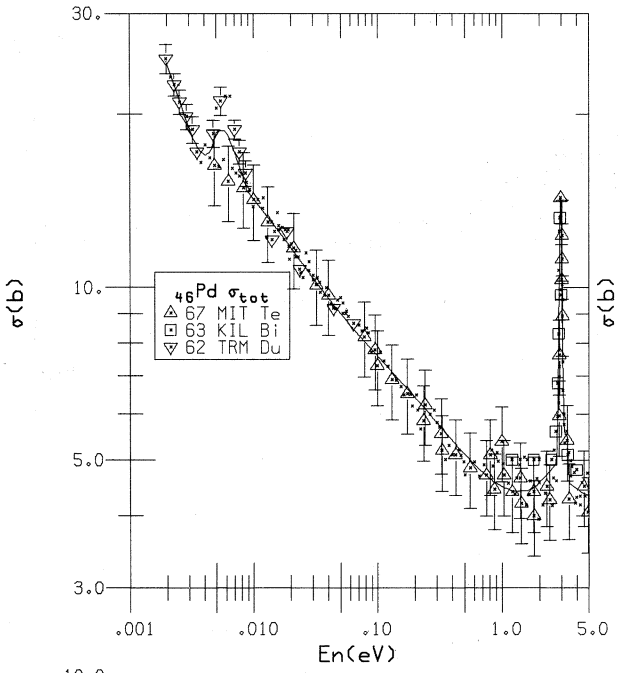
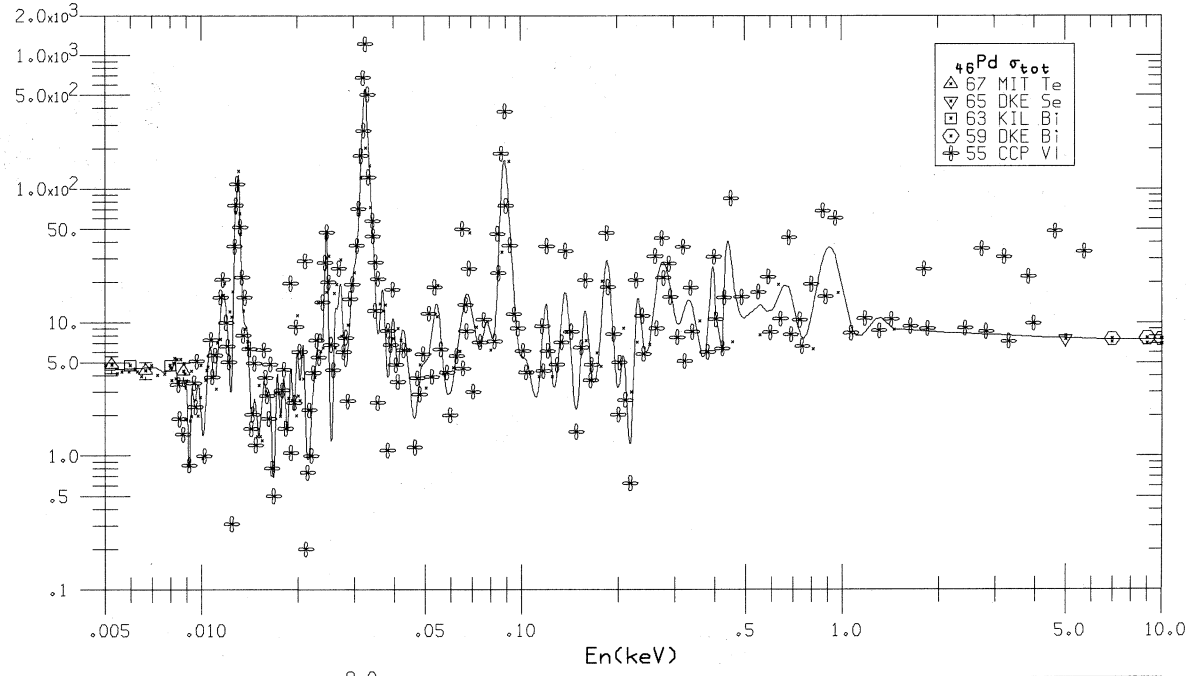
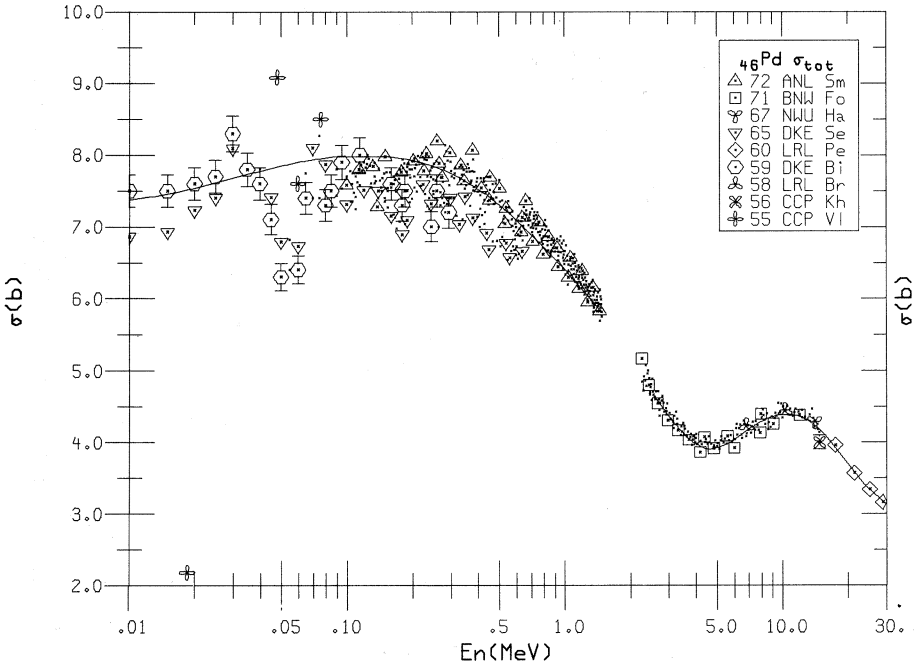
INFORMATION ANALYSIS CENTER REPORT

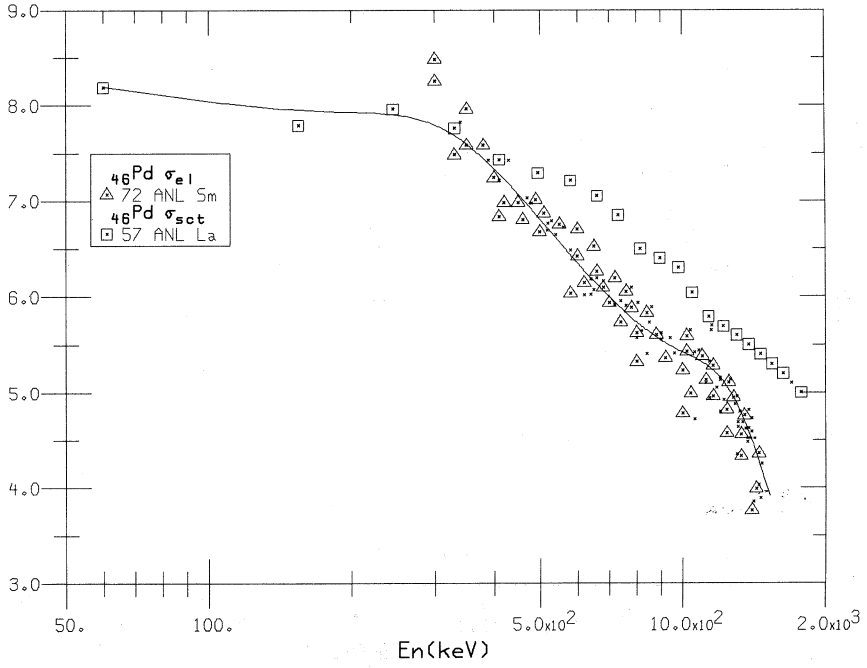
NATIONAL NEUTRON CROSS SECTION CENTER
BROOKHAVEN NATIONAL LABORATORY
UPTON, NEW YORK 11973

National Neutron Cross Section Center


$_{46}$Pd σ_{tot}
67 MIT Te
63 KIL Bi
62 TRM Du
σ(b)
En(eV)


$_{46}$Pd σ_{tot}
67 MIT Te
65 DKE Se
63 KIL Bi
59 DKE Bi
55 CCP Vl
σ(b)
En(keV)


$_{46}$Pd σ_{tot}
72 ANL Sm
71 BNW Fo
67 NWU Ha
65 DKE Se
60 LRL Pe
59 DKE Bi
58 LRL Br
56 CCP Kh
55 CCP Vl
σ(b)
En(MeV)

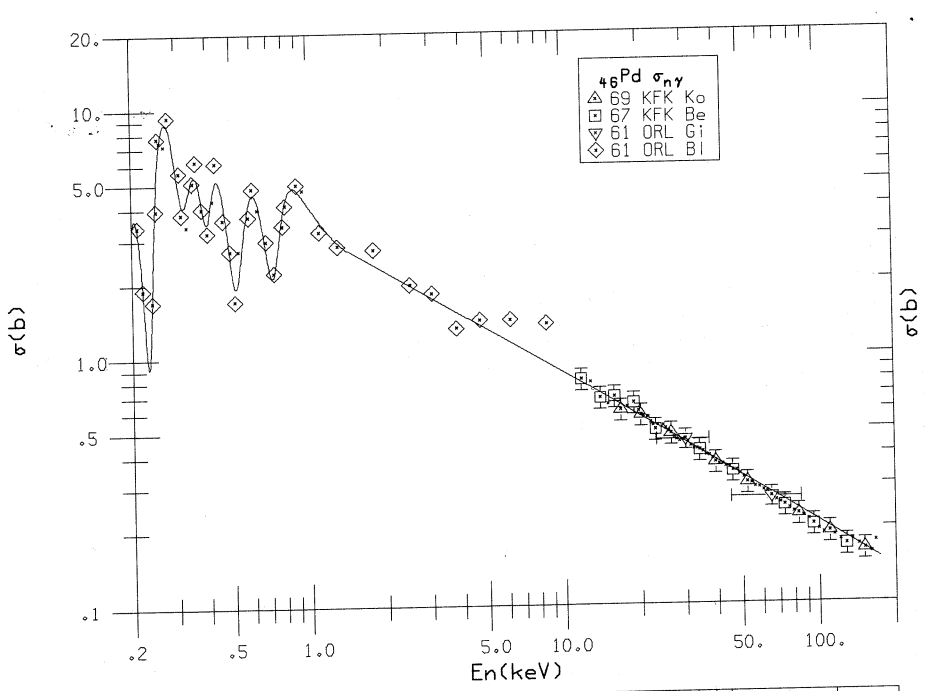

$_{46}$Pd σ_{el}
72 ANL Sm
$_{46}$Pd σ_{sct}
57 ANL La
En(keV)

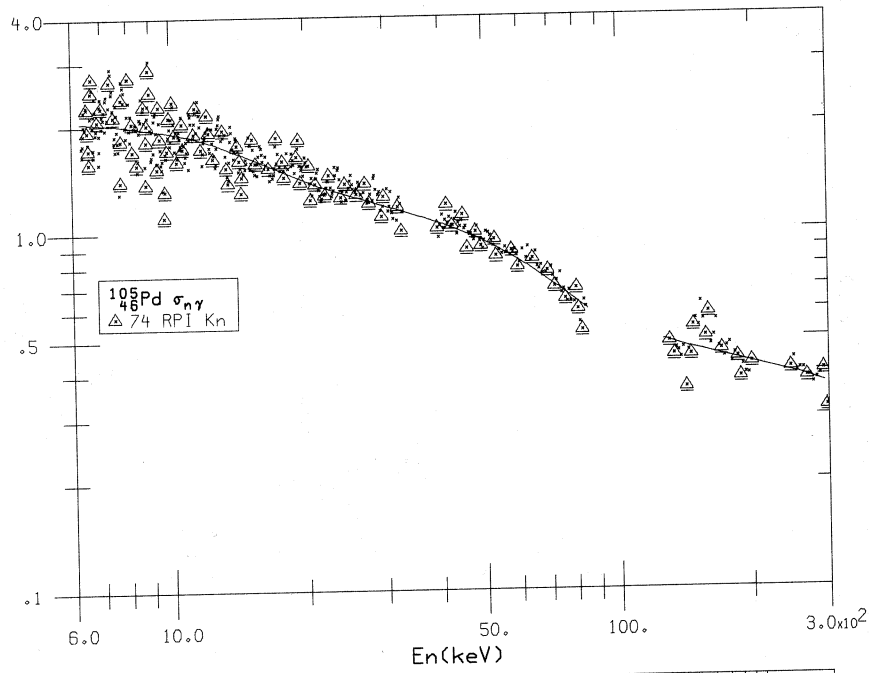
^{46}Pd $\sigma_{n\gamma}$

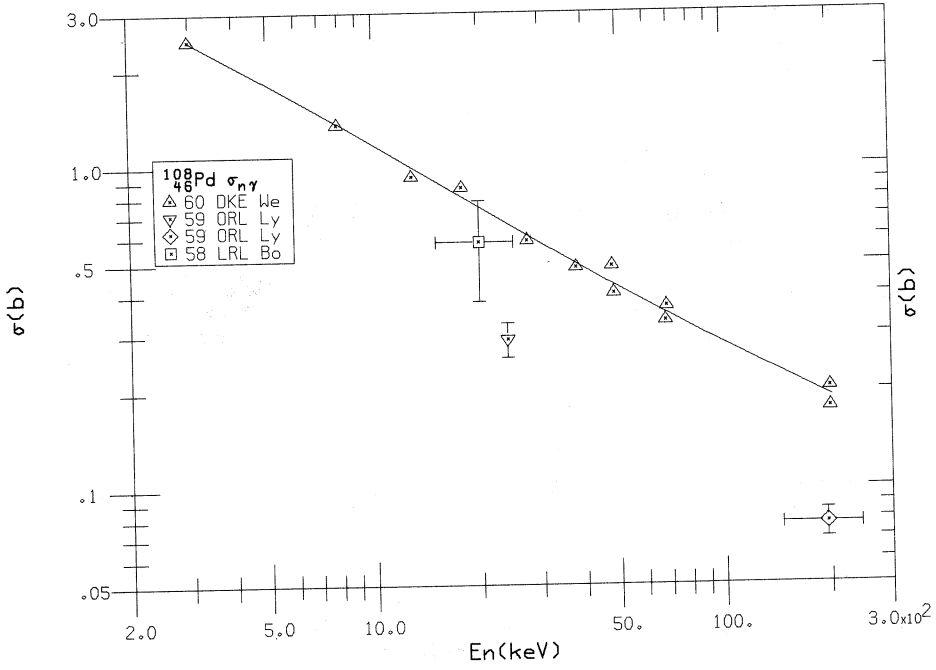
$^{105}_{46}Pd$ $\sigma_{n\gamma}$

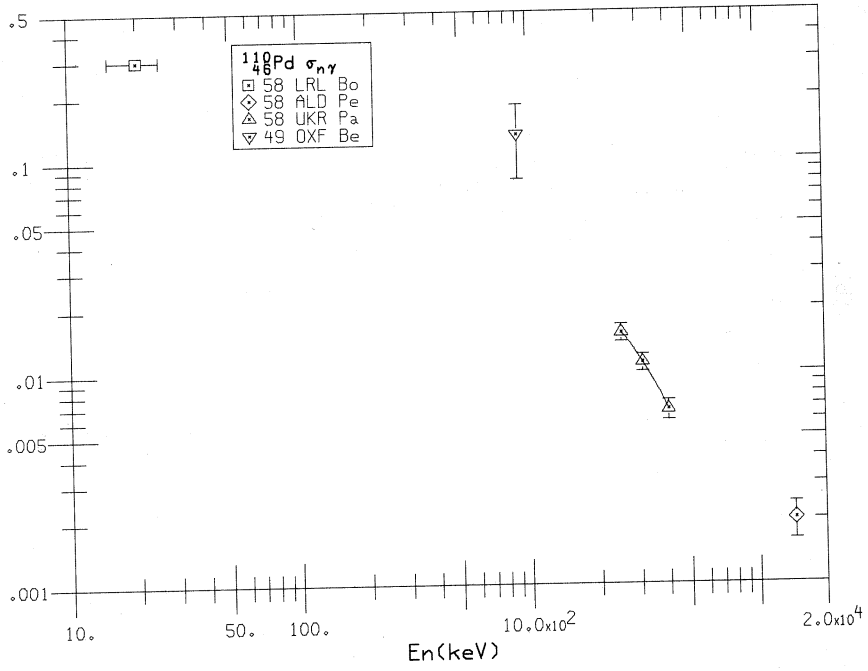
$^{108}_{46}Pd$ $\sigma_{n\gamma}$

$^{110}_{46}Pd$ $\sigma_{n\gamma}$









Yr	Lab	Author	Reference	Points	Range	Standard
			^{46}Pd σ_{tot}			
72	ANL	Smith,et.al.	NSE,49,389,72	670	.100 MeV to 1.497 MeV	abs
71	BNW	Foster Jr,et.al.	PR/C,3,576,71	252	2.265 MeV to 14.9 MeV	
67	MIT	Teich,et.al.	NSE,30,145,67	177	.0049 eV to 9.300 eV	
67	NWU	Haugsnes	HAUGSNES,67	1	4.290 b at 14.1 MeV	
65	DKE	Seth	PL,16,306,65	95	5.000 keV to .640 MeV	
63	KIL	Biel,et.al.	63KRLSRH,,112,63	25	1.200 eV to 10.0 eV	abs
62	TRM	Duggal,et.al.	62MADRAS,,369,62	47	.0020 eV to .0635 eV	
60	LRL	Peterson,et.al.	PR,120,521,60	4	17.5 MeV to 28.9 MeV	abs
59	DKE	Bilpuch	BILPUCH,59	61	5.000 keV to .295 MeV	
58	LRL	Bratenahl,et.al.	PR,110,927,58	6	6.830 MeV to 14.5 MeV	abs
56	ANL	Haugsnes	BAP,1,187(K2),56	1	4.320 b at 14.00 MeV	
56	CCP	Khaletskii	DOK,113,305,56	1	4.000 b at 14.8 MeV	
55	CCP	Vladimirski+	55GENEVA,4,22,55	382	8.190 eV to 76.1 keV	
			^{46}Pd σ_{el}			
72	ANL	Smith,et.al.	NSE,49,389,72	121	.300 MeV to 1.470 MeV	C σ_{el}
			^{46}Pd σ_{sct}			
57	ANL	Langsdorf Jr+	PR,107,1077,57	22	60.0 keV to 1.780 MeV	C
			^{46}Pd $\sigma_{n\gamma}$			
69	KFK	Kompe	NP/A,133,513,69	71	11.7 keV to .161 MeV	^{197}Au $\sigma_{n\gamma}$
67	KFK	Beckurts,et.al.	67KARLSR,1,67,67	71	11.7 keV to .161 MeV	^{197}Au $\sigma_{n\gamma}$
61	ORL	Gibbons,et.al.	PR,122,182,61	3	30.0 keV to .167 MeV	In $\sigma_{n\gamma}$
61	ORL	Block,et.al.	61SACLAY,,203,61	40	.200 keV to 8.600 keV	
			$^{102}_{46}$Pd σ_{n2n}			
73	LOU	Araminowicz+	INR-1464,14,73	1	.707 b at 14.6 MeV	^{63}Cu σ_{n2n}
70	ABD	Temperley,et.al.	BRL-1491,70	1	.600 b at 14.1 MeV	^{56}Fe σ_{np}
70	GIT	Lu,et.al.	PR/C,1,350,70	1	.637 b at 14.4 MeV	^{56}Fe σ_{np}
			$^{104}_{46}$Pd σ_{np}			
53	CRC	Paul,et.al.	CJP,31,267,53	1	.132 b at 14.5 MeV	abs
			$^{105}_{46}$Pd $\sigma_{n\gamma}$			
74	RPI	Knox,et.al.	COO-3058-50,74	562	6.314 keV to .297 MeV	
			$^{105}_{46}$Pd σ_{np}			
53	CRC	Paul,et.al.	CJP,31,267,53	1	.743 b at 14.5 MeV	abs

Yr	Lab	Author	Reference	Points	Range	Standard
			$^{106}_{46}$Pd $\sigma_{n\alpha}$			
70	GIT	Wen-Deh Lu+	PR/C,1,358,70	1	5.600 mb at 14.4 MeV	
			$^{108}_{46}$Pd $\sigma_{n\gamma}$			
60	DKE	Weston,et.al.	AP,10,477,60	12	2.990 keV to .200 MeV	^{108}Pd $\sigma_{n\gamma}$
59	ORL	Lyon,et.al.	PR,114,1619,59	1	.290 b at 24.0 keV	^{127}I $\sigma_{n\gamma}$
59	ORL	Lyon,et.al.	PR,114,1619,59	1	77.0 mb at .195 MeV	^{115}In $\sigma_{n\gamma}$
58	LRL	Booth,et.al.	PR,112,226,58	1	.580 b at 20.0 keV	^{127}I $\sigma_{n\gamma}$
			$^{108}_{46}$Pd σ_{nnp}			
59	ALD	Barry,et.al.	PPS,74,632,59	1	4.000 mb at 14.5 MeV	
			$^{108}_{46}$Pd $\sigma_{n\alpha}$			
70	GIT	Wen-Deh Lu+	PR/C,1,358,70	1	2.700 mb at 14.4 MeV	
58	ORL	Blosser,et.al.	PR,110,531,58	1	2.300 mb at 14.1 MeV	^{56}Fe σ_{np}
			$^{110}_{46}$Pd $\sigma_{n\gamma}$			
58	LRL	Booth,et.al.	PR,112,226,58	1	.300 b at 20.0 keV	^{127}I $\sigma_{n\gamma}$
58	ALD	Perkin,et.al.	PPS,72,505,58	1	2.000 mb at 14.5 MeV	^{27}Al $\sigma_{n\alpha}$
58	UKR	Pasechnik,et.al.	58GENEVA,15,18,58	3	2.500 MeV to 4.000 MeV	^{127}I $\sigma_{n\gamma}$
49	OXF	Beghian,et.al.	NAT,163,366,49	1	.131 b at .900 MeV	
			$^{110}_{46}$Pd σ_{n2n}			
64	TUR	Bonazzola,et.al.	NP,51,337,64	1	2.570 b at 14.7 MeV	
53	CRC	Paul,et.al.	CJP,31,267,53	1	1.948 b at 14.5 MeV	abs
			$^{110}_{46}$Pd $\sigma_{n\alpha}$			
53	CRC	Paul,et.al.	CJP,31,267,53	1	13.8 mb at 14.5 MeV	abs