^{77}Se(d,p) 1965Li08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Ameenah R. Farhan, Balraj Singh	NDS 110, 1917 (2009)	30-Jun-2009

E=15 MeV, enriched target, magnetic spectrograph, FWHM =40 keV; measured $\sigma(\theta)$ (θ=10° to 50°); uncertainties In cross sections are 10% to 20%. DWBA calculations.
Others: 1985DoZZ, 1982DoZY, 1964Za04.
$J^{\pi}(^{77}Se)=1/2^{-}$.

^{78}Se Levels

E(level)	L	(2J+1)S[†]	Comments
0	1	0.34	L=1, (2J+1)S=0.19 (1982DoZY). σ(max)=1.21 mb/sr.
620	1	0.074	L=1, (2J+1)S=0.042 (1982DoZY). σ(max)=0.32 mb/sr.
1320	(3)	0.27	L=3 (1982DoZY). σ(max)=0.12 mb/sr.
1510	1	0.036	L=1 (1982DoZY). σ(max)=0.15 mb/sr.
1880	3	0.1	σ(max)=0.04 mb/sr.
2360	1	0.081	σ(max)=0.35 mb/sr.
2560	(2)	0.031	σ(max)=0.10 mb/sr.
2940	4	0.61	σ(max)=0.21 mb/sr.
3130	1	0.40	σ(max)=1.94 mb/sr.
3330	1+4	0.035,0.59	σ(max)=0.21 mb/sr.
3460	(4)	1.65	σ(max)=0.59 mb/sr.
3550	(3)	0.88	σ(max)=0.49 mb/sr.
3690	2	0.38	σ(max)=1.26 mb/sr.
3830	2	0.34	σ(max)=1.12 mb/sr.
4120	0	0.68	σ(max)=1.74 mb/sr.
4190	0	0.89	σ(max)=2.25 mb/sr.
4360	2	0.57	σ(max)=2.38 mb/sr.
4490	2	0.76	σ(max)=3.30 mb/sr.
4590	2	0.33	σ(max)=1.37 mb/sr.
4780	0	0.31	σ(max)=0.87 mb/sr.
4910	2	0.28	σ(max)=1.29 mb/sr.
4970	2	0.45	σ(max)=1.94 mb/sr.
5120	0	0.29	σ(max)=0.80 mb/sr.
5210	2	0.60	σ(max)=2.89 mb/sr.
5360	(2)	0.27	σ(max)=1.31 mb/sr.
5480	(2)	0.13	σ(max)=0.63 mb/sr.
5610	2	0.29	σ(max)=1.49 mb/sr.

[†] Uncertainties are 10% to 20%. 1965Li08 list S′ factors also.