^{77}Se(^{3}He,d) 1979Kl05

History

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

$J^{\pi}(^{77}Se\ g.s.)=1/2^{-}$.

E=41.0 MeV Deuterons analyzed by a magnetic spectrometer; FWHM=40 keV; DWBA analysis; $\sigma(\theta)$ measured from 6° to 42° in 2° steps. See also thesis by 1978KlZT.

^{78}Br Levels

E(level)†	L	C^2S'‡	Comments
0	1	0.079,0.138	
124	1	0.091,0.123	
193	3+1	0.330,0.572#	L=3(70%)+L=1(30%). C^2S'=0.047, 0.082 for L(p)=1.
249	3	0.531,0.683	
322	1	0.070,0.122	
383	(3)	0.348,0.604	
430	1	0.076,0.132	
506	(1)	0.051,0.089	
573	3	0.225,0.389	
791	1	0.082,0.143	
909	1	0.045,0.079	
1061	(1)	0.016,0.026	
1176	3	0.089,0.154	
1254	3	0.066,0.114	
1395	3	0.055,0.095	
1486	(1)	0.013,0.023	
1570	3+1	0.057,0.098#	L=3(50%)+L=1(50%). C^2S'=0.0069, 0.0120 for L(p)=1.
1691	3	0.107,0.186	
1746	3+1	0.057,0.098#	L=3(50%)+L=1(50%). C^2S'=0.0084, 0.0145 for L(p)=1.
1823	(3)	0.074,0.128	
1985			
2062	(3)	0.044,0.076	
2162	(3)	0.070,0.121	

† Estimated uncertainty is 10 keV from FWHM.

‡ C^2S' values, no uncertainties given; the values given are for L(p)−1/2 and L(p)+1/2 respectively.

For L(p)=3.