^{76}Se(p,t) 1977Bo18,1976Or02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Ameenah R. Farhan	NDS 107, 1923 (2006)	30-Apr-2006

1977Bo18: E(p)=33 MeV. Resolution=60-85 keV. $\sigma(\theta)$ data DWBA calculations. Absolute σ's accurate to 15%.
1976Or02: E(p)=51.9 MeV. Resolution=90 keV. $\sigma(\theta)$ data from 6° to 65° (lab system). Relative σ's accurate to 20%. Zero-range DWBA calculations.
Others: 1980Or04, 1985Mi06. Both report data on g.s. transition strengths.
1976Or02 give enhancement factors for assumed configurations.

^{74}Se Levels

E(level)[‡]	L	Summed cross section (μb)[&]	Comments
0	0	200.3	
635 *10*	2[#]	52.0	
850 *10*	0	8.2	
1265 *25*	2[#]	10.5	
1362 *25*	4	6.8	
1839[†] *25*			
2101 *25*		6.1	
2146 *25*			E(level): 1976Or02 report only one level At 2129 *10* with L=0. IT is possible that the group At 2129 corresponds to two separate levels At At 2101 and 2146.
2338 *10*	3	28.0	
2482[†] *25*	(2)		
2569[†] *25*			
2718 *10*	0	9.7	
2848 *25*	(3)	19.8	
2918 *25*	(0)[@]	11.8	peak obscured by 2848 keV group.
3114[†] *25*			
3258 *10*	4[@]	29.8	
3379[†] *25*	(2)		
3538 *25*	(6)[@]	29.1	peak obscured by 3615 keV group.
3615 *25*	(2)	26.4	
3719 *25*			
3769 *25*	(5,6)	22.9	E(level): 1976Or02 report a single level At 3749 *10* which May correspond to doublet At 3719, 3769 reported by 1977Bo18. L: from 1977Bo18. 1976Or02 give L=(5) for a 3749 *10* level.
3858 *10*	(7)[@]	31.0	
4002[†] *25*	(2)		
4109[†] *25*	(2)		
4330[†] *25*			
4574[†] *25*			
4628[†] *25*			
4782[†] *25*			

[†] Reported by 1977Bo18 only.
[‡] Unweighted average of 1977Bo18 and 1976Or02.
[#] Fit to L=2 not reproduced well.
[@] From 1976Or02.
[&] From 1976Or02.