^{80}Se(t,α) 1983Mo09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 135, 193 (2016)	31-May-2016

E=18 MeV. Measured $\sigma(\theta)$, FWHM=25 keV. L transfers and spectroscopic factors deduced from DWBA calculations.
Q value=8407 *10*, mass excess (^{79}As)=−73643 *14*.

^{79}As Levels

E(level)	L	S[†]	Comments
0	1	1.30	
105 *7*	1	0.23	
232 *6*	3	2.29	
495 *7*	(1)	0.24	
779 *3*	4	0.53	
1020 *14*	1	0.04	
1058 *8*	(1,3)	0.03,0.09	S: for L=1, value is for $p_{3/2}$. But $J^{\pi}=1/2^-$ ($p_{1/2}$) is suggested from other reaction data (see Adopted Levels).
1144 *3*	3	0.22	
1432 *8*	(3,0)	0.13,0.03	
1501 *3*	1	0.07	
1714 *6*	(1,3)	0.07,0.14	
1813 *5*	4	0.09	
1896	1	0.33	
1966 *6*	4	0.07	
2057 *4*	1	0.14	
2128 *10*	(0)	0.01	
2219 *7*	(1,3)	0.17,0.36	
2329 *13*	(3,0)	0.06,0.01	
2553 *3*	0	0.02	
2636 *13*	0	0.03	
2835 *9*	(3,0)	0.14,0.04	
2945 *13*	(3)	0.53	
3071 *10*	3	1.10	
3166 *10*	(4,0)	0.02,0.09	
3332 *8*			
3479 *10*			E(level): uncertainty assigned by the evaluator. 1983Mo09 assume ΔE=2 keV.

[†] C^2S values. Contribution from the following orbitals is assumed for different L-transfers (1983Mo09): $3s_{1/2}$ for L=0, $2p_{3/2}$ for L=1 (except $2p_{1/2}$ for 495 and 1896 levels), $1f_{5/2}$ for L=3 and $1g_{9/2}$ for L=4.