^{190}Pt(p,d) 1980Ka19

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, Balraj Singh	NDS 142, 1 (2017)	15-Apr-2017

E=25 MeV, resolution FWHM=35 keV, five angles 5°−55°, DWBA.

^{189}Pt Levels

E(level)	L[‡]	C^2S[†]	Comments
0	(1)	1.07	E(level): levels at 0 and 6 keV unresolved. Transition to g.s. dominates L value.
44 *7*	1	0.42	
93 *8*	1,(3)	0.35	L: possible doublet. L=1 gives a better fit but L=3 is not excluded. C^2S calculated for L=1.
173 *5*	[5]	2.7	
193 *6*	6,5	3.6	C^2S calculated for L=6.
261 *5*	1	0.38	
285 *5*	3,1,5		L: if L=3, C^2S=1.5; if L=1, C^2S=0.34; if L=5, C^2S=13.4.
340 *5*	1,3,4,5		L: if L=1, C^2S=0.15; if L=3, C^2S=0.6; if L=4, C^2S=2, if L=5, C^2S=4.4.
441 *6*			
491 *5*	3,1,5		L: if L=3, C^2S=0.47; if L=1, C^2S=0.1; if L=5, C^2S=3.8.
574 *5*	1	0.33	

[†] Values correspond either to the known J^π value, or to $3/2^-$ for L=1, $5/2^-$ for L=3, $9/2^+$ for L=4, $9/2^-$ for L=5, and $13/2^+$ for L=6. The alternate value can be deduced from $C^2S(p1/2)/C^2S(p3/2)\approx1.08$, $C^2S(f7/2)/C^2S(f5/2)\approx0.82$.

[‡] L values given in order of author's preference.