

$^{194}\text{Pt}(d,^3\text{He})$  1981Iw01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 143, 1 (2017)	31-Mar-2017

E(d)=50 MeV,  $\theta=15^\circ$ ; enriched  $^{194}\text{Pt}$  targets; measured E(level) (mag spect, resolution $\approx$ 30 keV), differential cross sections, angular distributions; compared results with predictions of supersymmetry model.

 $^{193}\text{Ir}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	L <sup>‡</sup>	C <sup>2</sup> S <sup>#</sup>	Comments
0.0	3/2 <sup>+</sup>	2	1.17	
73	1/2 <sup>+</sup>	0	0.43	Includes minor component from 80 level ( $J^\pi=11/2^-$ ).
139	5/2 <sup>+</sup>	2	0.09	
180	3/2 <sup>+</sup>	2	0.09	
299	7/2 <sup>-</sup>	3	0.03	
362	5/2 <sup>+</sup>	2	0.25	Includes minor component from 358 level ( $J^\pi=7/2^+$ ).
460	3/2 <sup>+</sup>	2	0.87	
559	5/2 <sup>+</sup>	2	1.15	Includes minor component from 557 level ( $J^\pi=(1/2)^+$ ).
621	7/2 <sup>+</sup>	4	0.24	
695	5/2 <sup>+</sup>	2	0.31 <sup>@</sup>	695 and 712 levels not resolved. L: for 695 and 712 levels combined. C <sup>2</sup> S=0.52 if entire cross section is assumed to be for 695 level.
712	3/2 <sup>+</sup>	2	0.30 <sup>@</sup>	695 and 712 levels not resolved. L: for 695 and 712 levels combined. C <sup>2</sup> S=0.73 if entire cross section is assumed to be for 712 level.
849	5/2 <sup>+</sup>	2	0.56	849 and 874 levels not resolved. L,C <sup>2</sup> S: for 849 and 874 levels combined.
874	3/2 <sup>+</sup> ,5/2 <sup>+</sup>	2	0.56	See comments with 849 level.
964	1/2 <sup>+</sup>	0	0.41	

<sup>†</sup> From Adopted Levels.

<sup>‡</sup> From DWBA analysis of angular distributions.

<sup>#</sup> From DWBA analysis, with  $C^2S=(2J+1) \times (d\sigma/d\Omega)\text{exp}/(N (d\sigma/d\Omega)(\text{DWBA}))$  where  $N=2.95$ ; uncertainties are large, except for the  $\pm 5\%$  attributed to relative values for states corresponding to the same proton single-particle orbital.

<sup>@</sup> If  $\sigma(695)/\sigma(712)$  is assumed to be same as in (t, $\alpha$ ).