

$^{156}\text{Dy}(t,p)$  1988Bu08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 141, 1 (2017)	1-Feb-2017

$E(t)=17$  MeV and  $p(\theta)$  measured in magnetic spectrograph with FWHM  $\approx 18$  keV.

 $^{158}\text{Dy}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	$d\sigma/d\Omega(\mu\text{b/sr})$ <sup>‡</sup>	Comments
0 <sup>@</sup>	0 <sup>+</sup>	376	
99 <sup>@</sup>	2 <sup>+</sup>	30	
318 <sup>@</sup>	4 <sup>+</sup>	4	
949 <sup>a</sup>	2 <sup>+</sup>	$\leq 6$	
994 <sup>&amp;</sup>	0 <sup>+</sup>	17	
1164 <sup>a</sup>	4 <sup>+</sup>	10	
1269 <sup>b</sup>	0 <sup>+</sup>	48	
1362 <sup>b</sup>	(2 <sup>+</sup> )	5	
1395	3 <sup>-</sup>	20	
1517	(3 <sup>-</sup> )	5	
1559	0 <sup>+</sup>	13	
1743	0 <sup>+</sup>	12	
1828		$\leq 2$	
1921		$\leq 10$	$J^\pi$ : Assigned 3 <sup>+</sup> , 4 <sup>+</sup> , 5 <sup>+</sup> in Adopted Levels.
2000	0 <sup>+</sup>	14	
2102		$\leq 13$	$J^\pi$ : In Adopted Levels, 2096 level has no $J^\pi$ assignment and 2107 level has 4 <sup>+</sup> assignment.
$\approx 2208$ <sup>#</sup>			
2260		$\leq 4$	
2318		25	
2351		14	

<sup>†</sup> Authors' assignments based on angular distributions. Assignments agree with those in Adopted Levels until noted.

<sup>‡</sup> Cross section for (t,p) reaction at 30°.

<sup>#</sup> Probable doublet.

<sup>@</sup> Band(A):  $K^\pi=0^+$  ground-state band.

<sup>&</sup> Band(B):  $K^\pi=0^+$  bandhead.

<sup>a</sup> Band(C):  $K^\pi=2^+$   $\gamma$ -vibrational band.

<sup>b</sup> Band(D):  $K^\pi=0^+$  band.

$^{156}\text{Dy}(t,p)$  1988Bu08Band(D):  $K^\pi=0^+$  band(2<sup>+</sup>)      13620<sup>+</sup>      1269Band(C):  $K^\pi=2^+$   
 $\gamma$ -vibrational band4<sup>+</sup>      1164Band(B):  $K^\pi=0^+$   
bandhead0<sup>+</sup>      9942<sup>+</sup>      949Band(A):  $K^\pi=0^+$   
ground-state band4<sup>+</sup>      3182<sup>+</sup>      990<sup>+</sup>      0