¹⁵⁶**Dy**(**p**,**t**) 1992Ta22

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 200,2 (2025)	22-Aug-2022

Additional information 1. 156 Dy(p,t), E(p)=20 MeV. Target was prepared by isotope separation of already isotope-separated material. The isotopic purity of the resulting target material is believed to be \geq 99%. Reaction products were analyzed using an Enge split-pole spectrograph with photographic detection at 5° intervals from 5° to 75° and FWHM of \leq 10 keV. Authors treat primarily only the L=0 transitions.

¹⁵⁴Dy Levels

E(level)	J^{π}	L	$d\sigma/d\Omega(\mu b/sr)^{\ddagger}$	Comments
0	0^{+}	0	400	
335	2+		64	
661	0^+	0	231	$d\sigma/d\Omega(\mu b/sr)$: Relative to 100 for the ground state, the (p,t) "strength" (measured cross section divided by the DWBA cross section) for this state is 74 (1992Ta22).
747	4+		15	
906	2+		17	
1027	2^{+}		32	
1058	0^{+}	0	41	$d\sigma/d\Omega(\mu b/sr)$: Relative to 100 for the ground state, the (p,t) "strength" (measured cross section divided by the DWBA cross section) for this state is 16 (1992Ta22).
1208	3-		6	•
1223	6+		2	
1251	4+		6	
1392	2^{+}		3	
1442	4+		3	
1509	2+		12	
1547	5-		4	
1835			2	
1876			3	
1903	(3 ⁻)		3	
2038			6	

[†] From the adopted values. 1992Ta22 do not attempt to propose any new such values.

[‡] Values at $\theta = 25^{\circ}$. The relative cross sections are reproducible to $\approx 10\%$, and the absolute cross sections have an uncertainty of \approx 25%, mainly from the normalization procedure (1992Ta22).