¹⁶⁴**Dy(p,t)**

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 195,1 (2024)	19-Sep-2023

Additional information 1.

2006Me25: ¹⁶⁴Dy(p,t), E(p)=25 MeV. Enriched target, enrichment not given. Outgoing tritons measured at 5°, 17.5° and 30° using a Q3D magnetic spectrograph. FWHM=4-6 keV for E(t)=15-20 MeV. Report and discuss only 0⁺ states, which are identified from L=0 transitions established from angular-distribution data. List 12 such states, three of which are tentative.

2006Me13: an earlier report from the same group as that of 2006Me25.

1983IsZY: ¹⁶⁴Dy(p,t), E(p)=40 MeV. Angular distribution of tritons measured using a magnetic spectrograph. Survey of 5⁻ and 7⁻ levels in several nuclides. Shows 1 level on a plot.

1972Ma37: 164 Dy(p,t), E(p)=17.5 MeV on enriched (98.4%) target. 3 H(θ) measured in magnetic spectrograph with FWHM=12 keV. Lists 9 states. 1971IsZP: ¹⁶⁴Dy(p,t), E(p)=51.9 MeV on enriched target. ³H(θ) measured at 9 angles at FWHM \approx 90 keV. Abstract lists 7 states.

¹⁶²Dy Levels

E(level) [†]	L‡	Comments
0	0	
81 5		
266 5		
549.5		
774.2?*** 3		Possible contaminant (2006Me25). Level is not included in the Adopted Levels.
009 J		I aval not included in the Adopted Lavale
1210#		Level not included in the Adopted Levels.
1210"	0	
1398.9 ^{cc} 3	0	E(level): $19/2Ma3/ report E(level)=139/$. The evaluator assumes that this is the same level.
$1666.3^{\circ} 4$	0	
1700"	2	
1/32.5	0	
1814.6 2	0	
1820.3 5	0	
21125	0	
$2120.3^{++}0$	0	
2130°	2	
2496./~ /	0	
2580"	2	
2588.8 7	0	Level not reported in any of the other studies of 102 Dy. The evaluator has chosen not to include it in the Adopted Levels data set. It is assumed that it is not the same as the 2584.0 4 level.
2655.3 ^{&} 7	0	Level not reported in any of the other studies of ¹⁶² Dy. It is not included in the Adopted Levels data set.
2663.0? ^{&} 7	0	
≈2800 [@]	5+7	This may be the same as the 2802.9 level tentatively assigned by 2006Me25.
2802.9? ^{&} 7	0	

[†] From 1972Ma37, unless otherwise noted.

[±] L=0 values are from 1972Ma37 and 2006Me25, L=2 values from 1971IsZP, and L=5+7 from 1983IsZY.

[#] From 1971IsZP.

[@] From 1983IsZY.

[&] From 2006Me25.

^a Having two 0^+ levels this close together at this excitation is not usual. Since they are not seen in any of the other studies, they are not included in the Adopted Levels.