^{164}Dy(e,e′) 1987Bo27,1989Gu17

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen[#]	NDS 147, 1 (2018)	30-Nov-2017

1987Bo27, 1987Bo49, 1984Bo43:
1987Bo27: E(e)=24.3,29.4,34.7,40.5,48.2,55.8,62.3 MeV; θ=165°; E(e)=74.4,89.6,104.7,119.4,139.3 MeV; θ=154°; magnetic spectrometer, FWHM=20-40, form factors, transition strengths. In 1987Bo49, search was made for a mixed-symmetric 3^+ state.
1989Gu17: E=20-220 MeV. Measured form factor for an E1 excitation.
All references are from the same laboratory and share common authors.

^{164}Dy Levels

Σ (B(M1)↑)=5.2 *5* (1987Bo27) for composite of 1^+ levels near 2550 and 3140.

E(level)[†]	Jπ[‡]	Comments
0	0^+	
828	3^+	B(M3)↑=0.3 *+1−2* (1987Bo49)
1675	1^-	B(E1)↑<0.025 (1989Gu17) Γ<32 keV (1989Gu17). Jπ: based on form factor distribution (1989Gu17).
1757	$(3)^-$	Jπ: from 1989Gu17.
2531	1^+	
2540	1^+	
2578	1^+	
3112	1^+	B(M1)↑=1.5 *3* (1984Bo43)
3159	1^+	
3173	1^+	

[†] 828 level is from 1987Bo49. 1675 and 1757 are from 1989Gu17. The energies of two groups of 1^+ levels are from (γ,γ'), and are analyzed for (e,e′) data by 1984Bo43. In the (e,e′) spectrum shown by 1987Bo49, a large number of unlabeled peaks are shown which would correspond to levels in ^{164}Dy.
[‡] From Adopted Levels. Above 2500 level, M1 assignments are consistent with excitation function data (1987Bo27).