^{164}Dy(d,d′) 1968Gr08

History

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

E=12 MeV.
1968Gr08 (also 1966El07): E=12 MeV. Measured $\sigma(\theta)$ at 90° and 125°. FWHM=8 keV.
1969Ch09: (d,d) E=12 MeV. Measured $\sigma(\theta)$.

^{164}Dy Levels

E(level)	J^{π}[†]	dσ/dΩ (μb/sr) (125°)[‡]	Comments
0	0^+	10650	$\sigma(90°)/\sigma(125°)$=4.79.
73	2^+	2830	$\sigma(90°)/\sigma(125°)$=2.12.
242	4^+	91	$\beta_4\approx$0.09 (1966El07). $\sigma(90°)/\sigma(125°)$=1.28.
499	6^+	20	$\sigma(90°)/\sigma(125°)$=0.75.
761	2^+	31	B(E2)↑=0.114 $\sigma(90°)/\sigma(125°)$=3.29.
914	4^+	45	$\sigma(90°)/\sigma(125°)$=0.98.
1037	3^-	57	B(E3)↑=0.065 $\sigma(90°)/\sigma(125°)$=1.61.
1150	(6^+)	2	$\sigma(90°)/\sigma(125°)$=0.71.
1166		1	$\sigma(90°)/\sigma(125°)$=1.67.
1222		5	
1397		2	
1668		3	
1753	(3^-)	39[#]	B(E3)↑=0.032
1791		2	$\sigma(90°)/\sigma(125°)$=1.81.
1886		2	
1906		4	$\sigma(90°)/\sigma(125°)$=0.77.
2046		5[#]	
2150	(3^-)	8	B(E3)↑=0.009 $\sigma(90°)/\sigma(125°)$=1.26.
2194		3	$\sigma(90°)/\sigma(125°)$=1.73.
2206		2	$\sigma(90°)/\sigma(125°)$=2.48.
2235	(3^-)	13	B(E3)↑=0.016 $\sigma(90°)/\sigma(125°)$=1.19.
2245		3	$\sigma(90°)/\sigma(125°)$=2.90.
2262		18	$\sigma(90°)/\sigma(125°)$=1.05.
2278		14	$\sigma(90°)/\sigma(125°)$=1.86.
2302		4	$\sigma(90°)/\sigma(125°)$=1.53.

[†] From R=$\sigma(90°)/\sigma(125°)$ ratios (1968Gr08). R≈2.1 for E2,≈1.4 for E3 and <1 for multiple excitations.
[‡] Values are also listed by 1968Gr08 at 90°.
[#] Value at 90°. Line is either obscured or not seen at 125°.