^{164}Er(d,d′) 1968Tj02

History

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

E=12.1 MeV. Enriched targets. Measured $\sigma(\theta)$ at 60°, 90°, 125°. Deuterons analyzed with a magnetic spectrograph.

^{164}Er Levels

R(90°/125°)=[(dσ/dΩ)(90°)/(dσ/dΩ)(125°)].

E(level)	Jπ[†]	dσ/dΩ μb/sr At 125°	Comments
0	0^+[‡]	12070	R(90°/125°)=4.84.
91	2^+[‡]	2930	R(90°/125°)=1.96.
299	4^+[‡]	102	R(90°/125°)=1.04.
614	6^+[‡]	11	R(90°/125°)=0.96.
858	2^+	68	B(E2)↑=0.185 R(90°/125°)=2.40.
1057	4^+	37	R(90°/125°)=0.65.
1313		3	
1387		7	
1433	3^-	94	B(E3)↑=0.094 R(90°/125°)=1.22.
1469		6	R(90°/125°)=0.71.
1482	(2^+)	10	R(90°/125°)=2.00.
1568	3^-	39	B(E3)↑=0.042 R(90°/125°)=1.27.
1631	(5^-)	3	R(90°/125°)≈0.67.
1798	(5^-)	4	R(90°/125°)≈0.50.
1952		9	R(90°/125°)=0.75.
1968	$(3^-,4^+)$	13	B(E3)=0.013. R(90°/125°)=1.06.
2000	$(3^-,4^+)$	15	R(90°/125°)=0.86.
2036		4[#]	
2067		7[#]	
2288	$(3^-,4^+)$	19	R(90°/125°)≈0.78.
2337	(3^-)	7	B(E3)=0.09. R(90°/125°)=1.35.

[†] Unless otherwise stated, the assignments are from 1968Tj02 based on the following empirical rules: R(90°/125°)≈2 for E2;≈1.25 for E3; and<1 for multiple excitation.
[‡] From Adopted Levels.
[#] At 90°.