^{170}Yb(d,d′) 1967Bu21

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. M. Baglin[1], E. A. Mccutchan[2], S. Basunia[1]	NDS 153, 1 (2018)	1-Oct-2018

Other: 1968Fr01.
E=12 MeV; measured $\sigma(\theta)$ with broad-range magnetic spectrograph, Nilsson model analysis.

^{170}Yb Levels

For 1145, 1400 and 1783 levels, 1967Bu21 deduce B(EL) based on systematics of (dσ/dΩ)/B(EL) in this mass region.

E(level)	J^π †	$\sigma(90°)/\sigma(125°)$	E(level)	J^π †	$\sigma(90°)/\sigma(125°)$
0‡	0^+	4.8	1330#	4^+	0.7
84‡	2^+	2.0	1400	3^-	0.9
278‡	4^+	0.6	1586		
577‡	6^+	1.4	1783	3^-	0.8
1145#	2^+	2.2	1968		
1300		1.6	2115		

† Authors′ values, based on dσ/dΩ(90°)/dσ/dΩ(125°) measurement, comparison with Nilsson model predictions and likely band configuration.
‡ Band(A): $K^\pi=0^+$ band.
# Band(B): $K^\pi=2^+$ band.

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Band(B): $K^{\pi}=2^{+}$ band

4^{+} 1330

2^{+} 1145

Band(A): $K^{\pi}=0^{+}$ band

6^{+} 577

4^{+} 278

2^{+} 84

0^{+} 0

$^{170}_{70}Yb_{100}$