

$^{152}\text{Eu}(p,p')$ 1978La10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 114, 1497 (2013)	31-Aug-2013

$J^\pi(^{152}\text{Eu})=3^-$.

$E=12$ MeV, FWHM ≈ 7 keV.

 ^{152}Eu Levels

The authors DWBA analysis gives $\beta_2=0.28$ and $\beta_4=0.06$.

The authors suggest that the 286 level and the possible 406 level May be the 4^- and 5^- members of a $\pi 3/2[411]\nu 11/2[505]$ $K^\pi=4^-$ band proposed by 1978Vo05.

E(level)	J^π [†]	S^\ddagger	Comments
0.0 [#]	3^-	68.6 44	J^π : from Adopted Levels.
89.7 [#] 5	4^-	1.44 14	
200.9 [#] 10	5^-	0.51 5	
281 3			
286 3			
333.0 [#] 15	6^-	0.04 1	
406? 4			
472? 4			
490 [#] 2	7^-	0.010 3	

[†] Based on the assumption that (p,p') excites strongly the g.s. band.

[‡] Label= $\sigma(90^\circ)$ in mb/sr.

[#] Band(A): $\pi 5/2[413]\nu 11/2[505]$ $K^\pi=3^-$.

 $^{152}\text{Eu}(\text{p,p}') \quad 1978\text{La10}$

Band(A): $\pi 5/2[413]v11/$
 $2[505] K^\pi=3^-$

7⁻ 490

6⁻ 333.0

5⁻ 200.9

4⁻ 89.7

3⁻ 0.0

$^{152}_{63}\text{Eu}_{89}$