

$^{151}\text{Eu}(\text{d,p})$ 1978Vo05

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

$J(^{151}\text{Eu})=5/2^+$.

Florida State data $E=12$ MeV, $\text{FWHM}\approx 14$ keV.

Munich data $E=14.01$ MeV, $\text{FWHM}=5.3$ keV.

 ^{152}Eu Levels

$E(\text{D}), S(\text{D})$ Probably a multiplet.

$E(\text{level})^{\dagger\ddagger}$	$S^{\#@}$	$E(\text{level})^{\dagger\ddagger}$	$S^{\#@}$	$E(\text{level})^{\dagger\ddagger}$	$S^{\#@}$	$E(\text{level})^{\dagger\ddagger}$
79.2 11	5.1	284.9 4	6.6	430.5 4	24.5	689& 6
113.2 12	3.0	299.5 4	6.1	434.6 3	41.2	711 2
119.7 10	10.6	304.8 4	8.1	439.6 3	39.0	727 4
141.4 15	2.0	312.9 3	16.3	444.8 4	20.8	749 ^a 3
145.9 13	2.1	322.4 4	19.6	450.8 4	5.6	765 3
152.5 10	6.3	327.9 4	41.7	459.3 4	6.3	808 2
175.6 14	1.6	332.6 4	18.8	470.0 5	6.2	826 5
181.1 11	3.3	340.0 4	19.7	476.2 4	26.1	849 2
214.4 3	25.0	347.8 4	9.2	493 2		879 3
221.4 4	9.2	358.8 4	6.5	519 2		897 3
227.3 4	8.0	363.8 4	6.2	541& 5		921 5
234.3 4	6.4	377.4 4	6.5	551& 5		938 4
247.4 6	2.8	383.3 4	12.1	570 3		958 4
254.0 4	3.9	388.4 3	26.4	595 3		992 3
266.5 4	8.3	399.8 3	84.0	623 3		
271.8 3	20.9	405.4 4	17.5	645 3		
277.9 4	6.8	411.9 5	7.7	675& 6		

[†] For $E<480$ keV are from Munich data (1978Vo05). E for higher levels are from Florida State data (1978VoZP).

[‡] ΔE are from 1978VoZP; uncertainties are peak-fitting uncertainties only. For data quoted to tenths of keV, the additional uncertainty due to calibration is 4 keV. For other data, the overall uncertainty due to the uncertainty in the Q value is 14 keV.

[#] Label= $\sigma(65^\circ)$.

[@] Munich data.

[&] Complex structure.

^a Peak may belong to $^{28}\text{Si}(\text{d,p})$.