^{153}Eu(t,α) 1977Hi05

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

$J^{\pi}(^{153}Eu)=5/2^{+}$.
Measured: σ(E), E=15 MeV, FWHM=13 keV.

^{152}Sm Levels

E(level)	S[‡#]	E(level)	J$^{\pi}$[†]	S[‡#]	E(level)	J$^{\pi}$[†]	S[‡#]	E(level)	S[‡#]
122 *3*	12	1756 *3*		16	2058[@] *3*	(7$^-$)	39	2307 *3*	4.3
369 *3*	12	1774 *3*		5.0	2111 *3*		4.1	2340 *3*	5.7
705 *3*	1.6	1802[@] *3*	(5$^-$)	7.9	2146 *3*		4.5	2415 *3*	47
813 *3*	6.1	1889 *3*		17	2172 *3*		11	2489 *3*	19
1022 *3*		1920[@] *3*	(6$^-$)	25	2194 *3*		18	2515 *3*	11
1222 *3*	0.8	1953 *3*		3.5	2216[@] *3*	(8$^-$)	24	2612 *3*	15
1512 *3*	2.2	1966 *3*		5.6	2283 *3*		14	2697 *3*	18

[†] From comparison of experimental and calculated σ for members of K=5$^-$ rotational band with configuration (π 5/2[413])⊗(ν 5/2[532]).
[‡] Label=dσ/dΩ (45°) μb/sr.
[#] The uncertainties are 10% for relative values and 20% for absolute values.
[@] Band(A): K$^{\pi}$=5$^-$ (π 5/2[413])⊗(ν 5/2[532]).

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Band(A): $K^{\pi}=5^{-}$ (π 5/2[413])$\otimes$(ν 5/2[532])

(8^{-}) 2216

(7^{-}) 2058

(6^{-}) 1920

(5^{-}) 1802

$^{152}_{62}Sm_{90}$