^{151}Eu(p,t)   **1975Ta12**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 185, 2 (2022)	23-Aug-2022

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

1975Ta12: E(p)=18.5 and 19.0 MeV beams from the J.H. Williams Laboratory MP tandem. Measured $\sigma(\theta)$, $\theta=10°-70°$. FWHM=10 keV. DWBA analysis.

^{149}Eu Levels

E(level)[†]	L	dσ/dΩ (μb/sr)[‡]	E(level)[†]	L	dσ/dΩ (μb/sr)[‡]	E(level)[†]	L	dσ/dΩ (μb/sr)[‡]
0	0	958	879 *3*	0	2.9	1226 *3*	0	84
150 *3*		6.6	911 *3*		5.5	1294 *3*		2.4
535 *3*		17.2	935 *3*		5.5	1319 *3*	0	57
666 *3*		6.1	955 *3*	0	4.1	1356 *3*		9.4
754 *3*	0	27.5	1064 *3*	(0)	3.3	1439 *3*		10.1
778 *3*		8.3	1150 *3*	0	11.0	1508 *3*		8.0
801 *3*		13.5	1190 *3*		3.2	1550 *3*		9.0
816 *3*		11.4	1212 *3*		3.7			

[†] Assigned uncertainty=3 keV, based on FWHM=10 keV.
[‡] At an angle where the value is maximum.