^{152}Eu(t,α) 1985Ma26

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 110, 1 (2009)	20-Nov-2008

E=16 MeV.

Radioactive target of 90% purity. Magnetic spectrograph (Q3D type). FWHM≈20 keV. $\sigma(\theta)$ for levels below 1 MeV. DWBA calculations for levels below 1 MeV, assigned to 11/2[505] band.

^{151}Sm Levels

E(level)[†]	Jπ[‡]	E(level)[†]	E(level)[†]	E(level)[†]
261	(11/2)$^-$	1549 *10*	1894 *12*	2165 *11*
447 *2*	(13/2$^-$)	1636?[@]	1953 *8*	2205?[@]
651 *3*	(15/2$^-$)	1697 *10*	1991 *10*	2233 *13*
870[#] *4*	(17/2$^-$)	1747 *9*	2045 *11*	2259 *13*
1167 *9*		1771 *9*	2080 *11*	2299 *11*
1271 *9*		1815 *9*	2102?[@]	
1398 *9*		1845 *11*	2119?[@]	
1489 *11*		1871 *11*	2134 *11*	

[†] Normalized to 261 level, known from (α,3nγ) studies. Uncertainties are statistical errors. Above 1.5 MeV excitation, the observed groups may be unresolved multiplets of single levels.

[‡] From 'Adopted Levels'. $\sigma(\theta)$ data agree well with DWBA calculations for 261, 447 and 651 levels.

[#] Excited probably by a 2-step mechanisms.

[@] Weak evidence for population of this level.