

$^{152}\text{Eu}(\text{d,t})$  1977St17

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

E=20 MeV.

Isotopically pure radioactive target. Magnetic spectrograph of Q3D type.  $\sigma(\theta)$  data from  $15^\circ$  to  $65^\circ$  in steps of  $10^\circ$ .

FWHM=8-12 keV. DWBA calculations. Other: [1980La11](#).

 $^{151}\text{Eu}$  Levels

E(level)	E(level)	E(level)	E(level)
0 <sup>†</sup>	697 1	1178 3	2110 <sup>‡</sup>
22 <sup>†</sup> 6	802 1	1200 3	2307 5
196 <sup>†</sup> 6	868 2	1252 3	2331 <sup>#</sup> 4
260 <sup>@</sup> 1	910 2	1346 4	2348 <sup>#</sup> 4
306 2	947 2	1420 3	2419 6
350 2	972 <sup>†</sup>	1506 3	2494 4
415 <sup>@</sup> 1	1014 3	1762 4	2510 5
505 2	1049 <sup>‡</sup>	1833 4	2644 4
584 2	1102 3	1912 4	2711 4
600 <sup>@</sup> 1	1120 3	2022 3	2751 4
654 <sup>&amp;</sup> 1	1151 3	2072 3	2827 6

<sup>†</sup> Weakly populated levels.

<sup>‡</sup> Multiplet.

<sup>#</sup> Closely spaced bandheads at 2331 and 2348 involving 3-quasiparticle components.  $\sigma(\theta)$  data reported.

<sup>@</sup>  $\sigma(\theta)$  data reported and are consistent with assignment to 5/2[413] band.

<sup>&</sup> Bandhead of 5/2[413]  $\beta$  band.