

$^{153}\text{Eu}(\text{p},\text{t})$ **1975Ta12**

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

E=18.5 MeV.

 $\sigma(\theta)$ data from 10° to 70° . FWHM=10 keV. Absolute cross sections accurate to 10%. DWBA calculations.Other: [1973Bu06](#). E=18 MeV. $\sigma(\theta)$ data from 5° to 75° DWBA calculations. $J^\pi(^{153}\text{Eu g.s.})=5/2^+$. ^{151}Eu Levels

E(level)	$J^\pi{}^\dagger$	L^\ddagger	Comments
0		0	
22 <i>3</i>			
261 ^{&} <i>3</i>	$5/2^+$	0	
309 [#] <i>3</i>		(0)	
414 ^{&} <i>3</i>	$(7/2^+)$		
508 <i>3</i>			
585 <i>3</i>		0	
597 ^{&} <i>3</i>	$(9/2^+)$		
654 ^a <i>3</i>	$5/2^+$	0	
698 <i>3</i>		0	
721 <i>3</i>			
735 <i>3</i>			
755 <i>3</i>			
801 <i>3</i>			
869 <i>3</i>			
902 <i>3</i>		0	L: from 1975Ta12 .
911 <i>3</i>			
944 <i>3</i>			
1007 <i>3</i>			
1097 <i>3</i>			
1117 <i>3</i>			
1154 <i>3</i>			
1176 <i>3</i>			
1200 <i>3</i>			
1247 <i>3</i>			
1323 <i>3</i>			
1338 <i>3</i>			
1353 <i>3</i>			
1406 <i>3</i>			
1641 [@] <i>3</i>			

[†] From $\sigma(\theta)$ and possible band assignment.[‡] From [1975Ta12](#) and [1973Bu06](#), unless otherwise stated.[#] Probably a doublet, since angular distribution not consistent with pure L=0.[@] Doublet.& Band(A): Member of $5/2(413)$ band.^a Probably bandhead of $5/2[413] \beta$ band.

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Band(A): Member of
5/2(413) band

(9/2⁺) **597**

(7/2⁺) **414**

5/2⁺ **261**