^{154}Gd(p,t) 2006Me25,1973Fl04

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

1973Fl04: E=18 MeV, FWHM=12 keV.
2006Me25: E=25 MeV, FWHM=4-6 keV.
Others:
1972El07: E=18 MeV, FWHM≈20 keV.
2006Me13: same authors as in 2006Me25. Discussion of shape phase transitional behavior.
The L values are from $\sigma(\theta)$. The L=0 values are from 2006Me25 based on a comparison with DWBA calculations. The other L values are from 1973Fl04 based on a comparison with $\sigma(\theta)$ for levels with known J^π in neighboring nuclei. 1973Fl04 also report L=0 for the g.s., 615, and 1048 levels.

^{152}Gd Levels

E(level)[†]	L	S[‡#]	E(level)[†]	L	E(level)[†]	L	S[‡#]	E(level)[†]	L	S[‡#]
0	0	913 *4*	1109	(2)	1668			2579.8 *7*	0	5.0 *4*
344	(2)		1123		1680.5 *5*	0	5.8 *4*	2767.7 *7*	0	7.1 *6*
614.8 *4*	0	1080 *5*	1227		1961.9 *5*	(0)	7.7 *5*	2810.2 *7*	0	3.9 *5*
755	(4)		1282		2363.2 *6*	0	12.2 *6*			
931	(2)		1318		2421.5 *7*	0	8.0 *5*			
1048.0 *4*	0	506 *3*	1606		2491.9 *7*	(0)	2.1 *7*			

[†] From 2006Me25 for the L=0 states. The energies for other states, reported by 1973Fl04, are rounded-off values from Adopted Levels.
[‡] Label=dσ/dΩ (μb/sr).
[#] At 5°. 2006Me25 provide data at 17.5° and 30° also.