^{155}Gd(t,p) 1989Lo07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 132, 1 (2016)	4-Dec-2015

^{155}Gd(t,p) reaction with E(t)=17 MeV and outgoing p measured in magnetic spectrograph with FWHM ≈ 25 keV (1989Lo07).

^{157}Gd Levels

E(level)[†]	J$^\pi$[‡]	L	Comments
0.0[#]	3/2$^-$	0	
55[#] *7*	5/2$^-$		
131[#] *7*	7/2$^-$		
180[@] *7*	9/2$^+$		
228[#] *7*	9/2$^-$		
347[#] *7*	11/2$^-$		
434[&] *7*	5/2$^-$		
513[&] *7*	7/2$^-$		
643[#] *7*	15/2$^-$		
703[a] *7*	(1/2)$^-$		
766 *7*	3/2$^-$		
792[a] *7*	5/2$^-$		
816[b] *7*	3/2$^-$		
845[b] *7*	(5/2$^-$)		
900 *7*	(7/2$^-$)		J$^\pi$: Assigned as the 7/2$^-$ levels from both the 1/2[521] and the 1/2[530] bands.
923 *7*			
967[b] *7*	(9/2$^-$)		
1044 *7*	3/2$^-$	0	
1109 *7*			
1178 *7*			
1201 *7*			
1282 *7*			
1316 *7*			
1383 *7*			
1406 *7*		(3)	
1474 *7*			
1520 *7*	3/2$^-$	0	
1578 *7*			
1599 *7*			
1798 *7*	(3/2$^-$)	(0)	
1840 *7*			
1899 *7*			
1958 *7*	(3/2$^-$)	(0)	
2004 *7*			
2119 *7*	(3/2$^-$)	(0)	

[†] Uncertainties are from general comment (1989Lo07).
[‡] Assignments for levels above 1000 keV are from L values from this study. J^π and band assignments for lower energy levels are from Adopted Levels.
[#] Band(A): 3/2[521] band.
[@] Band(B): 5/2[642] band.
[&] Band(C): 5/2[523] band.
[a] Band(D): 1/2[521] band.
[b] Band(E): 1/2[530] band.

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Band(E): 1/2[530] band

$(9/2^-)$ 967

$(5/2^-)$ 845

Band(D): 1/2[521] band

$3/2^-$ 816

$5/2^-$ 792

$(1/2)^-$ 703

Band(A): 3/2[521] band

$15/2^-$ 643

Band(C): 5/2[523] band

$7/2^-$ 513

$5/2^-$ 434

$11/2^-$ 347

$9/2^-$ 228

Band(B): 5/2[642] band

$9/2^+$ 180

$7/2^-$ 131

$5/2^-$ 55

$3/2^-$ 0.0

$^{157}_{64}Gd_{93}$