^{157}Gd(t,p) 1989Lo07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 113, 157 (2012)	31-Dec-2010

Additional information 1.
E(t)=17 MeV, FWHM≈25 keV, and $J^\pi(^{157}Gd)=3/2^-$, conf=$\nu 3/2^-[521]$.

^{159}Gd Levels

E(level)†	L#	S@&	E(level)†	L#	S@&	E(level)†	L#	S@&	E(level)†	L#	S@&
0	0	91	871		3	1520		2	2044		4
53		5	945		3	1585		3	2163‡		4
121‡		5	1054‡		3	1600‡	(0)	4	2191‡		4
151		2	1111	0	29	1671‡		3	2274		5
186		3	1147		10	1694		4[a]	2358		4
220‡		5	1190		4	1781		7[a]	2448‡		6[a]
507		5	1281‡		4	1848	(0)	13	2492‡		6[a]
558		2	1327		4	1871		1	2616		8
589		5	1430		9	1895‡		2	2648		5
706‡		6	1471‡		1	1920‡		3	2708‡	(0)	5
760		4	1502		2	1990		4	2733‡		4

† From a general statement, the uncertainties are≈7 keV.
‡ Association of this peak with a specific final state is problematic, in that it can overlap more than one final state.
# Except for those with L=0, the angular distributions by themselves are not sufficient to allow an unambiguous determination of the J^π values for the final states.
@ Label=$d\sigma/d\Omega(\mu b/sr)$.
& Cross section at 30°, unless otherwise noted.
[a] Cross section at 20°.