

Adopted Levels

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	A. A. Sonzogni	NDS 103, 1 (2004)	31-Jul-2022

S(n)= $1.35 \times 10^4$  SY; S(p)= $1.6 \times 10^3$  SY; Q( $\alpha$ )= $3.8 \times 10^3$  SY [2021Wa16](#)

The only information about  $^{134}\text{Gd}$  is from  $^{135}\text{Tb}$  proton decay, which populates the ground state of  $^{134}\text{Gd}$  and probably the first  $2^+$ .

 $^{134}\text{Gd}$  LevelsCross Reference (XREF) Flags

**A**  $^{135}\text{Tb}$  p decay (0.94 ms)

<u>E(level)</u>	<u>J<math>^\pi</math></u>	<u>XREF</u>	<u>Comments</u>
0.0	$0^+$	<b>A</b>	
$\approx 115?$	$2^+$	<b>A</b>	E(level): from energy difference in proton peaks. J $^\pi$ : from expected quadrupole deformation $\approx 0.3$ . A $2^+$ level is expected at 120 keV. Two events at an energy $\approx 115$ keV below the main proton peak were observed, which may correspond to the population of the first $2^+$ .