Adopted Levels

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	31-Dec-2016

Q(β^-)=−11570 *SY*; S(n)=11160 *SY*; S(p)=1750 *SY*; Q(α)=3320 *SY* 2017Wa10
ΔQ(β^-)=ΔS(n)=ΔQ(α)=570, ΔS(p)=500 (syst,2017Wa10).
S(2n)=24670 *640*, S(2p)=1740 *500*, Q(εp)=9700 *450* (syst,2017Wa10).
No new experimental structure references for ^{135}Gd since the update in December 2016.
1996Xu07: ^{135}Gd produced in ^{106}Cd(^{32}S,3n),E=171 MeV and identified through the measurement of γ and x rays in appropriate nuclides, delayed protons, (x ray)(proton) and γ(proton) coincidences. See also 2005Xu04.

^{135}Gd Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(5/2$^+$)	1.1 s *2*	%ε+%β^+=100; %εp≈2 (1996Xu07) J^π: from comparison of measured delayed proton spectrum and %εp to low-lying states in ^{134}Sm with calculations using statistical model (1996Xu07). 5/2$^+$ is also suggested in theoretical calculations of 2019Mo01. $T_{1/2}$: from timing of 163γ (2$^+$ to 0$^+$ transition in ^{134}Sm) in coin with protons from εp decay of ^{135}Gd (1996Xu07,2005Xu04).