^{139}Tb ε decay (1.6 s)   1999Xi04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	P. K. Joshi, B. Singh, S. Singh, A. K. Jain	NDS 138, 1 (2016)	15-Oct-2016

Parent: ^{139}Tb: E=0.0; $T_{1/2}$=1.6 s 2; Q(ε)=9500 SY; $\%\varepsilon+\%\beta^+$ decay>0.0
^{139}Tb-J^π,$T_{1/2}$: From Adopted Levels for ^{139}Tb.
^{139}Tb-Q(ε): 9500 360 (syst,2012Wa38).
Measured $\gamma\gamma$(t), (x ray)γ(t); He-jet; HPGe detectors.
Assignment from observation in Gd-Kα gated spectrum and comparison of the excitation functions with that of 328.4γ (^{140}Tb).

^{139}Gd Levels

E(level)	Comments
0	Ground state is expected to be populated.

γ(^{139}Gd)

E_γ	E_i(level)
^{x}109.0	
^{x}119.7	

^{x} γ ray not placed in level scheme.