^{151}Lu p decay (16 μs) 1999Bi14

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni	NDS 114, 435 (2013)	1-Apr-2013

Parent: ^{151}Lu: E=77 *5*; $J^{\pi}=3/2^{+}$; $T_{1/2}$=16 μs *1*; Q(p)=1241 *3*; %p decay=100.0

^{151}Lu-%p decay: From measured $T_{1/2}$ much smaller than calculated values from 1997Mo25: $T_{1/2}(\beta)$=0.2200 s, $T_{1/2}(\alpha)=8.341\times10^{5}$ y.

1999Bi14: ^{96}Ru(^{58}Ni,X) E=266 MeV. ^{151}Lu separated by recoil-mass separator at HRIBF(ORNL) and implanted in double sided silicon strip detector. Measured proton spectra and $T_{1/2}$.

E(p)=1310 *10*.

^{150}Yb Levels

E(level)	J^{π}
0.0	0^{+}

Protons (^{150}Yb)

E(p)	E(^{150}Yb)	Comments
1310 *10*	0.0	Identified as L(p)=2 transition (1999Bi14).