Adopted Levels

History

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

S(p)=−1269.6 *23*; Q(α)=3991 (syst) *361* 2017Wa10
Q(ε)=13998 (syst) *424*; S(2p)=453 *23*; Q(εp)=11954 (syst) *358*
Additional information 1.
2003Gi10, 2000Gi01: ^{96}Ru(^{58}Ni,p3n) E=292 MeV, Recoil Mass Separator (ORNL) with a multiwire, gas-filled, position sensitive avalanche counter (PSAC) at the focal plane, followed by a double-sided silicon strip detector (DSSD) detector.
2003Ro21: ^{96}Ru(^{58}Ni,p3n) E=297 MeV, Fragment Mass Analyser (ANL) with position sensitive parallel grid avalanche counter (PGAC) at the focal plane, followed by a double-sided silicon strip detector (DSSD) detector.
1993Se04: superseded by 2000Gi01.

^{150}Lu Levels

E(level)	J$^{\pi}$	T$_{1/2}$	Comments
0	(2$^+$)	45 ms *3*	%p=70.9 *19*; %ε+%β^+=29.1 *19* %p,%ε+%β^+, from experimental T$_{1/2}$ and assuming T$_{1/2}$(ε+β^+)=155 ms (1997Mo25). J$^{\pi}$: following strong-coupling limit and coupled channel calculations in 2001Fe05. T$_{1/2}$: weighted average of 43 ms *5* (2003Ro21), 49 ms *5* (2000Gi01) and 35 ms *10* (1993Se04). E(p)=1261 keV *4*, *J*$^{\pi}$(p)=11/2$^-$ (assuming spherical core). $\sigma\approx$3 μb (2000Gi01).
22 *6*	(1$^-$,2$^-$)	39 μs *+8−6*	%p=100 T$_{1/2}$: from 2003Gi10, other values: 52.5 μs *+130−87* (2003Ro21), 30 μs *+95−15* (2000Gi01). J$^{\pi}$: following strong-coupling limit and coupled channel calculations in 2001Fe05. E(level): from energy difference in proton Q(β^-) values. E=1283 keV *5*, weighted average of 1277 keV *8* (2003Gi10) and 1286 keV *6* (2003Ro21), other value: 1295 keV *15* (2000Gi01). *J*$^{\pi}$(p)=3/2$^+$ (assuming spherical core). $\sigma\approx$50 nb (2000Gi01).