

¹⁵⁶Lu α decay (494 ms) [1979Ho10,1965Ma14](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 114, 1497 (2013)	31-Aug-2013

Parent: ¹⁵⁶Lu: E=0; J ^{π} =(2)⁻; T_{1/2}=494 ms 12; Q(α)=5596 3; % α decay \approx 95.0

¹⁵⁶Lu-E,J ^{π} ,T_{1/2}: Values adopted by [2003Re20](#).

¹⁵⁶Lu-% α decay: Adopted by [2003Re20](#) from gross β decay theory ([1973Ta30](#)), T_{1/2}($\epsilon+\beta^+$) \approx 10 s. %IT assumed to be negligible.

Data for E(α), I(α), and T_{1/2} are from [1996Pa01](#), [1979Ho10](#) and [1965Ma14](#).

[Additional information 1.](#)

¹⁵²Tm Levels

E(level)	Comments
0+x	E(level): Final level of α decay is unknown, but is probably the 8.0-s or the 5.2-s state. J ^{π} : HF=1.63 11 for the α branch from this level shows that the level has the same configuration as that of the daughter level.

α radiations

E α	E(level)	I α [#]	HF ^{†‡}	Comments
5453 3	0+x	100	1.63 11	E α : weighted average of 5449 5 (1979Ho10 , corrected for calibration, see 1991Ry01) and 5454 4 (1996Pa01). Other: 5430 30 (1965Ma14). I α : Only one α branch has been reported.

[†] r₀(¹⁵²Tm)=1.566 20.

[‡] r₀ is an average from the adjacent even-even nuclides, ¹⁵⁴Yb, ¹⁵⁶Yb, and ¹⁵⁶Hf, ¹⁵⁸Hf.

[#] For absolute intensity per 100 decays, multiply by \approx 0.95.