^{113}I α decay 1981Sc17,1977Ki11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Kumar(a), J. Chen(b) and F. G. Kondev	NDS 137, 1 (2016)	31-May-2016

Parent: ^{113}I: E=0.0; J^π=(5/2$^+$); $T_{1/2}$=6.6 s *2*; Q(α)=2707 *10*; %α decay≈3.31×10^{-5}

^{113}I-%α decay: Estimate from α decay transmission calculations in 1981Sc17.

1981Sc17: Activity ^{58}Ni(^{58}Ni,xpyn), E(^{58})Ni=290 MeV, GSI online mass separator, heavy-ion accelerator UNILAC. Measured: Eα, $T_{1/2}$.

^{109}Sb Levels

E(level)	J^π	$T_{1/2}$	Comments
0	5/2$^+$	17.2 s *5*	J^π,$T_{1/2}$: From Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
2610 *40*	0	100	≈1	Eα: From 1981Sc17.

[†] r_0(^{109}Sb)=1.57 5, taken from r_0(^{110}Te), deduced by assuming HF=1.0.

[‡] For absolute intensity per 100 decays, multiply by ≈3.310×10^{-7}.