

^{112}I α decay (3.42 s) [1978Ro19](#),[1981Sc17](#)

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

Parent: ^{112}I : $E \geq 0.0$; $T_{1/2} = 3.42$ s *II*; $Q(\alpha) = 2990$ 50; $\% \alpha$ decay ≈ 0.0012

^{112}I - $Q(\alpha)$: $Q(\text{g.s.}) = 2990$ 50 if observed α feeds ^{108}Sb g.s.

^{112}I - $\% \alpha$ decay: from [1978Ro19](#); reduced $\Gamma(\alpha) = 0.35$ deduced.

Source: ^{58}Ni ($^{58}\text{Ni}, x$) $E = 290$ MeV, on-line ms, semi. Identification: 2866 α decay curve, $T_{1/2} = 3.42$ s *II* ([1978Ro19](#)); [1977Ki11](#) confirmed $T_{1/2}$ via K x ray decay (3.3 s 2), γ -ray decay (3.3 s 3), p-decay (3.7 s 3).

 ^{108}Sb Levels

<u>E(level)</u>	<u>$T_{1/2}$</u>
≥ 0.0	7.0 s 5

 α radiations

<u>$E\alpha$</u>	<u>E(level)</u>	<u>$I\alpha^\dagger$</u>	<u>Comments</u>
2880 30	≥ 0.0	100	$E\alpha$: from 1981Sc17 .

† For absolute intensity per 100 decays, multiply by $\approx 1.2 \times 10^{-5}$.