

^{112}I ε decay [1977Ki11](#)

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|----------------------------|---------|---------------------|------------------------|
| Full Evaluation | S. Lalkovski, F. G. Kondev | | NDS 124, 157 (2015) | 1-Aug-2014 |

Parent: ^{112}I : $E=0.0$; $J^\pi=(1^+)$; $T_{1/2}=3.34$ s 8; $Q(\varepsilon)=10504$ 13; $\% \varepsilon + \% \beta^+$ decay ≈ 100.0

[1977Ki11](#): Facility: GSI; Source: mass-separated ^{112}I from $^{58}\text{Ni}(^{58}\text{Ni}, \alpha p)$ and $^{58}\text{Ni}(^{63}\text{Cu}, 2\alpha n)$; Beam: $E(^{58}\text{Ni})=290$ MeV; Targets: 3 mg/cm² ^{58}Ni and ^{63}Cu ; Detectors: GSI Fragment separator, mylar tape, one plastic scintillator, one Ge(Li), one x-ray detector, one telescope; measured: β , γ , x-rays, $E\gamma$, $T_{1/2}$.

The decay scheme is incomplete ($Q(\varepsilon)=10504$ 13 keV).

 ^{112}Te Levels

| <u>$E(\text{level})^\dagger$</u> | <u>J^π^\ddagger</u> |
|---|------------------------------------|
| 0.0 | 0^+ |
| 688.9 6 | 2^+ |
| 1475.8 9 | 4^+ |

[†] From a least-squares fit to $E\gamma$.

[‡] From the Adopted Levels.

 $\gamma(^{112}\text{Te})$

| <u>E_γ^\dagger</u> | <u>$E_i(\text{level})$</u> | <u>J_i^π</u> | <u>E_f</u> | <u>J_f^π</u> |
|--------------------------------------|---------------------------------------|-----------------------------|-------------------------|-----------------------------|
| 688.9 6 | 688.9 | 2^+ | 0.0 | 0^+ |
| 786.9 6 | 1475.8 | 4^+ | 688.9 | 2^+ |

[†] From [1977Ki11](#).

^{112}I ϵ decay 1977Ki11Decay Scheme