

^{70}Ga ε decay [1977Sc10](#)

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|----------------------------|---------|-------------------|------------------------|
| Full Evaluation | G. Gürdal, E. A. Mccutchan | | NDS 136, 1 (2016) | 1-Jul-2016 |

Parent: ^{70}Ga : $E=0.0$; $J^\pi=1^+$; $T_{1/2}=21.14$ min 3; $Q(\varepsilon)=654.6$ 16; $\% \varepsilon$ decay=0.41 5

^{70}Ga - $\% \varepsilon$ decay: From ratio of Zn $K\alpha$ x rays to $I_\gamma(176\gamma)$ in ^{70}Ge ([1977Sc10](#)). Ratio corrected for contamination of ^{68}Ga in the measured activity. Other: 0.24% ([1975Bu07](#), earlier result from the same laboratory as [1977Sc10](#)).

[1977Sc10](#): ^{70}Ga activity from $^{69}\text{Ga}(d,p)$ with $E(d)=8.8, 10.4, \text{ and } 11.9$ MeV. Branching ratio measurement performed at 8.8 MeV.

Measured E_γ , I_γ , $\gamma(t)$, $K\alpha$ x-ray using Ge(Li) detector.

Others: [1975Bu07](#), [1957Bu41](#).

 ^{70}Zn Levels

| E(level) | J^π [†] | $T_{1/2}$ [†] |
|----------|----------------------|-----------------------------|
| 0.0 | 0^+ | $\geq 3.8 \times 10^{18}$ y |

[†] From the Adopted Levels.

 ε radiations

| E(decay) | E(level) | I_ε [†] | Log ft | Comments |
|------------|----------|------------------------------|----------|---|
| (654.6 16) | 0.0 | 100 | 4.72 6 | $\varepsilon_K=0.8828$; $\varepsilon_L=0.09946$; $\varepsilon_{M+}=0.01774$ |

[†] For absolute intensity per 100 decays, multiply by 0.0041 5.