

^{88}Mo ε decay (8.0 min) 1982De43,1971Do01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

Parent: ^{88}Mo : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=8.0$ min 2; $Q(\varepsilon)=3490$ 60; $\% \varepsilon + \% \beta^+$ decay=100.0

1982De43: ^{88}Mo activity produced in $^{59}\text{Co}(^{32}\text{S},3n)$, $E(^{32}\text{S})=123$ MeV. Measured E_γ , I_γ , $\gamma\gamma$, and $\gamma(t)$.

1971Do01: ^{88}Mo activity produced in $^{59}\text{Co}(^{32}\text{S},3n)$, $E(^{32}\text{S})=100$ MeV. Measured E_γ , I_γ and $\gamma(t)$.

 ^{88}Nb Levels

Observation of the 399γ from ^{88}Nb ε decay (7.78 min) suggests that ^{88}Mo ε decay populates states built on the (4^-) isomer (1971Do01).

E(level)	J^π^\dagger	$T_{1/2}^\dagger$
0.0+x	(4^-)	7.78 min 5
80.0+x		
170.7+x		

† From the Adopted Levels.

 $\gamma(^{88}\text{Nb})$

E_γ^\dagger	I_γ^\dagger	$E_i(\text{level})$	E_f	J_f^π	Comments
80.0 5	80	80.0+x	0.0+x	(4^-)	E_γ, I_γ : from 1982De43, observed only in spectrum gated on 80γ .
90.7		170.7+x	80.0+x		
$^x 130.9^\ddagger 5$	60				
170.7 5	100	170.7+x	0.0+x	(4^-)	

† From 1971Do01, except where noted.

‡ Observed only by 1971Do01; no evidence for this γ ray found by 1982De43.

x γ ray not placed in level scheme.

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Legend

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
- Coincidence

Decay Scheme

Intensities: Relative I_γ 