

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 109,1383 (2008)	1-Mar-2008

$Q(\beta^-) = -1.10 \times 10^4$ syst; $S(n) = 1.039 \times 10^4$ 13; $S(p) = 1.35 \times 10^3$ 8; $Q(\alpha) = 4008$ 5 [2012Wa38](#)

Note: Current evaluation has used the following Q record 10400 syst 1500 syst 4008 5 [2003Au03](#).

 ^{107}Te LevelsCross Reference (XREF) Flags

A ^{111}Xe α decay
B $^{58}\text{Ni}(^{52}\text{Cr}, 3n\gamma)$

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0		3.1 ms 1	AB	$\% \alpha = 70$ 30; $\% \varepsilon + \% \beta^+ = 30$ 30 $\% \alpha$: from 1979Sc22 . Based on gross β^- decay theory of 1973Ta30 , one expects $\% \varepsilon + \% \beta^+ \approx 0.5$. An energy of 3862 10 for the decay of ^{107}Te (1991He21). Populated by 0.9-s ^{111}Xe α decay. $T_{1/2}$: from 1994Pa11 . Other: 3.6 ms +6-4 from time-correlated dependence of $I\alpha(^{111}\text{Xe})/I\alpha(^{107}\text{Te})$ (1979Sc22). Probable $g_{7/2}$ state.
90.3 4	(7/2 ⁺)		B	
721.0? 4	(9/2 ⁺)		B	

 $\gamma(^{107}\text{Te})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
90.3	(7/2 ⁺)	90.3 4	100	0.0	
721.0?	(9/2 ⁺)	631.3 [†] 5	78 26	90.3	(7/2 ⁺)
		721.0 [†] 4	100 25	0.0	

[†] Placement of transition in the level scheme is uncertain.

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Level Scheme
Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- - - - - → γ Decay (Uncertain)

