

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne and A. Negret		NDS 109,943 (2008)	1-May-2007

S(n)= 1.35×10^4 4; S(p)= 1.49×10^3 11; Q(α)=4290 10 [2012Wa38](#)

Note: Current evaluation has used the following Q record 1.379E4 SY1.68E3 174290 9 [2003Au03](#).

 ^{106}Te LevelsCross Reference (XREF) Flags

A ^{110}Xe α decay
B ^{54}Fe (^{54}Fe ,2n γ)

E(level) [†]	J π [‡]	T _{1/2}	XREF	Comments
≥ 0.0	0 ⁺	70 μs 17	AB	$\% \alpha = 100$ $\% \epsilon + \% \beta^+ \approx 0.0008$ from the gross β -decay strength function calculations of 1973Ta30 . T _{1/2} : Weighted average of 60 μs +40–20 (1994Pa11) and 60 μs +30–10 (1981Sc17). Technique used: delayed $\alpha\gamma$ coincidences.
664.8?# [@]	3 (2 ⁺)		B	
1353.2?# [@]	4 (4 ⁺)		B	
1646.2?# [@]	5 (6 ⁺)		B	
2386.6?# [@]	7 (8 ⁺)		B	
3127.0?# [@]	8 (10 ⁺)		B	

[†] All data are from [2005Ha57](#).

[‡] Suggested from observed band structure.

The ordering of the transitions in 740-740-293-688-665 cascade is not established, thus the level energies may be different.

@ Band(A): g.s. band. Near-harmonic collective vibrational structure.

 $\gamma(^{106}\text{Te})$

E _i (level)	J π _i	E γ	I γ	E _f	J π _f
664.8?	(2 ⁺)	664.8 [†] 3	100	≥ 0.0	0 ⁺
1353.2?	(4 ⁺)	688.4 [†] 3	100	664.8? (2 ⁺)	
1646.2?	(6 ⁺)	293.0 [†] 3	100	1353.2? (4 ⁺)	
2386.6?	(8 ⁺)	740.4 ^{‡†} 4	100 [‡]	1646.2? (6 ⁺)	
3127.0?	(10 ⁺)	740.4 ^{‡†#} 4	100 [‡]	2386.6? (8 ⁺)	

[†] The ordering of the transitions in 740-740-293-688-665 cascade is tentative.

[‡] Multiply placed with undivided intensity.

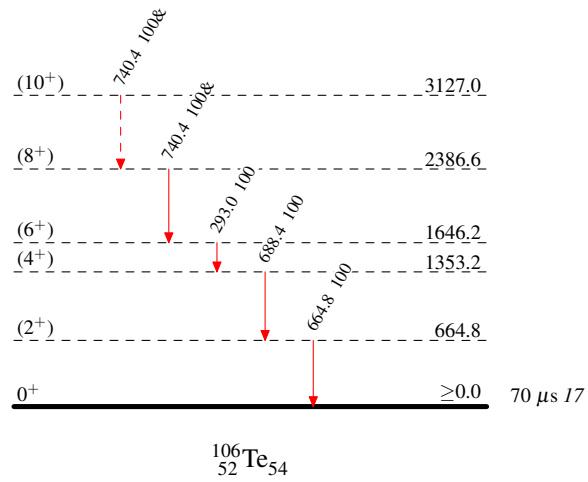
Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas**Level Scheme**

Intensities: Type not specified
& Multiply placed: undivided intensity given

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)



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