

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, Huo Junde		NDS 87,15 (1999)	1-Nov-1998

$Q(\beta^-)=3.08\times 10^3$ 5; $S(n)=5.68\times 10^3$ 5; $S(p)=7.50\times 10^3$ *syst*; $Q(\alpha)=-5.\times 10^1$ 7 [2012Wa38](#)

Note: Current evaluation has used the following Q record 3.08E3 5 5.68E3 5 7510 *syst* -50 70 [1995Au04](#).

 ^{174}Tm LevelsCross Reference (XREF) Flags

A ^{174}Er β^- decay

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0	(4) ⁻	5.4 min <i>I</i>	A	$\% \beta^- = 100$ T _{1/2} : weighted average of 5.5 min 5 (1960Wi10), 5.2 min 3 (1964Ka16), 5.5 min <i>I0</i> (1966Wi04), 5.5 min 5 (1967KaZX), 5.5 min 3 (1967Gu12), and 5.4 min <i>I</i> (1975Ka32). J ^π : log <i>ft</i> =4.7 to 1884.5 J ^π =(5) ⁻ state in ^{174}Yb . Probable configuration=(π 1/2[411])+(ν 7/2[514]) from analogy with 69-proton nuclei ^{169}Tm and ^{171}Tm both 1/2 ⁺ and 105-neutron ^{177}Hf (7/2 ⁻). Possible configuration=(π 7/2[523])+(ν ,5/2[512]) or (π ,7/2[523])+(ν ,9/2[624]) (1991Be04).
0.0+x	0,1,2		A	
58.5+x			A	
100.4+x			A	
130.4+x			A	
252.2+x			A	
766.9+x			A	
772.9+x			A	

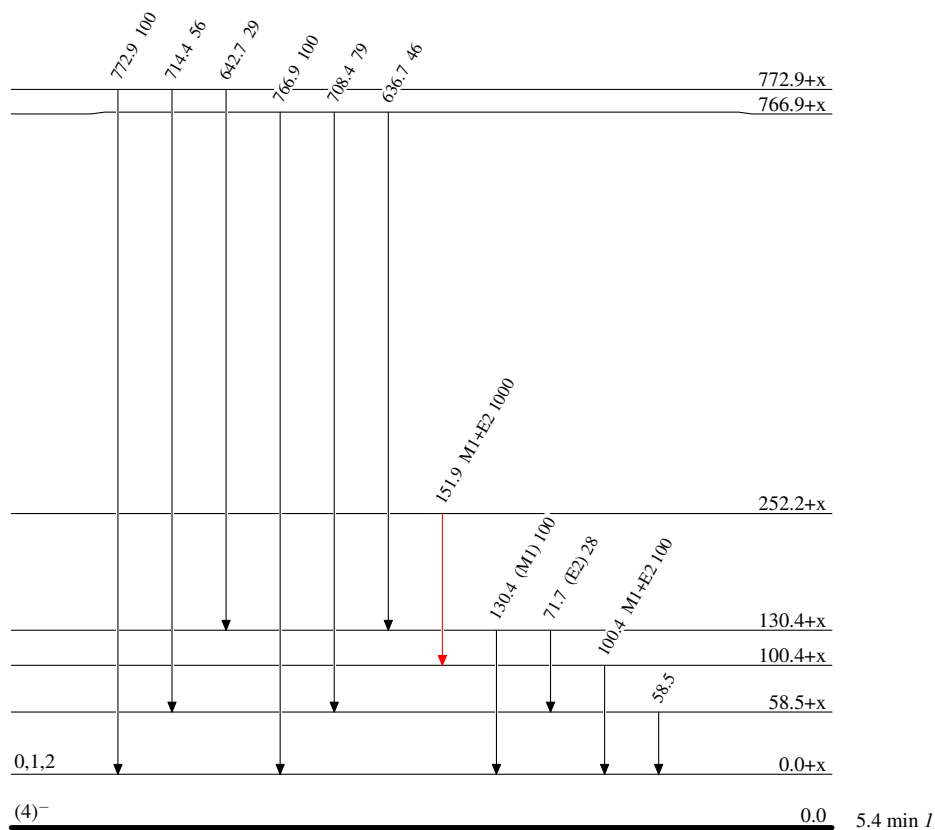
[†] From ^{174}Er β^- decay.

 $\gamma(^{174}\text{Tm})$

E _i (level)	E _{γ} [†]	I _{γ} [†]	E _f	J _f ^π	Mult. [†]	δ [†]
58.5+x	58.5 2		0.0+x	0,1,2		
100.4+x	100.4 2	100 <i>I</i>	0.0+x	0,1,2	M1+E2	1.2 +7-4
130.4+x	71.7 2	28 9	58.5+x		(E2)	
	130.4 2	100 <i>I0</i>	0.0+x	0,1,2	(M1)	
252.2+x	151.9 2	1000	100.4+x		M1+E2	1.2 +4-3
766.9+x	636.7 2	46 <i>I8</i>	130.4+x			
	708.4 2	79 <i>I9</i>	58.5+x			
	766.9 2	100 5	0.0+x	0,1,2		
772.9+x	642.7 2	29 2	130.4+x			
	714.4 2	56 8	58.5+x			
	772.9 2	100 <i>I5</i>	0.0+x	0,1,2		

[†] From ^{174}Er β^- decay.

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

 $^{174}_{69}\text{Tm}_{105}$