^{144}Tb IT decay (4.25 s) 1986Re11

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 93, 599 (2001)	1-Dec-2000

Parent: ^{144}Tb: E=396.9 *5*; J^π=(6$^-$); $T_{1/2}$=4.25 s *15*; %IT decay=66.0
Source: ^{35}Cl on ^{112}Sn, ms. Measured (K x ray)γ-coin.

^{144}Tb Levels

E(level)‡	J^π†	$T_{1/2}$	Comments
0.0	1$^+$	≈1 s	J^π: from log *ft* from 0$^+$ parent and to 0$^+$ daughter in β decay.
283.9	(3$^+$)		
396.9	(6$^-$)	4.25 s *15*	

† From Adopted Levels.
‡ As given by authors.

γ(^{144}Tb)

E_γ	I_γ†	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α‡	Comments
113.0 *3*	4.3 *4*	396.9	(6$^-$)	283.9	(3$^+$)	E3	22.7	α(K)=3.04 *10*; α(L)=14.9 *5*; α(M)=3.70 *11*; α(N+..)=1.03 *3* Mult.,α(exp): from intensity balance, α(exp)≈24. Additional information 1.
283.9 *3*	100 *10*	283.9	(3$^+$)	0.0	1$^+$	[E2]	0.0744	

† For absolute intensity per 100 decays, multiply by 0.66.
‡ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

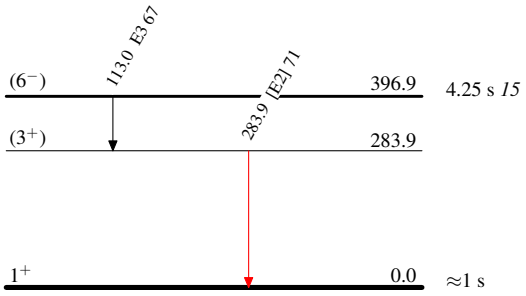
%IT=66.0

Legend

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

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

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



$^{144}_{65}Tb_{79}$