^{176}Yb IT decay (11.4 s)　　　1970Tu07,1967Bo33

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	M. S. Basunia	NDS 107, 791 (2006)	15-Sep-2005

Parent: ^{176}Yb: E=1050.3 *5*; J$^\pi$=(8$^-$); T$_{1/2}$=11.4 s *3*; %IT decay=100.0
Others: 1967Bo08, 1965Ve01, 1962Ka24.

^{176}Yb Levels

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$	Comments
0.0	0$^+$	stable	
82.1 *2*	2$^+$		
272.1 *3*	4$^+$		
565.0 *4*	6$^+$		
954.3 *4*	8$^+$		
1050.3 *5*	8$^-$	11.4 s *3*	T$_{1/2}$: weighted average of 11.7 s *5* (1962Ka24), 11.0 s *5* (1965Ve01), and 12 s *1* (1967Bo08).

[†] Deduced by evaluator from a least-squares fit to γ-ray energies from 1970Tu07 and 1967Bo33.
[‡] From Adopted Levels.

γ(^{176}Yb)

Iγ normalization: from decay scheme, I(γ+ce)=107 *2* (weighted average of 82γ, 96γ, 190γ, 293γ, and 390γ − including 2% uncertainty in α).

E$_\gamma$[†]	I$_\gamma$[‡][@]	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Mult.[#]	α[&]	Comments
82.1 *2*	15 *3*	82.1	2$^+$	0.0	0$^+$	E2	7.07	α(K)= 1.49; α(L)= 4.24; α(M)= 1.04; α(N+..)= 0.288
96.0 *2*	79 *8*	1050.3	8$^-$	954.3	8$^+$	E1	0.38	Mult.: from α(exp)=0.40 *8* (1967Bo33), α(exp)=0.42 *9*, α(K)exp=0.9 *5* from K x ray γ coin is consistent with E1 multipolarity (1965Ve01). α=0.28 *14*, deduced by evaluator from a transition-intensity balance at 954 level.
190.1 *2*	88 *6*	272.1	4$^+$	82.1	2$^+$	E2	0.322	α(K)= 0.192; α(L)= 0.0990; α(M)= 0.0239; α(N+..)= 0.00654
292.9 *3*	100	565.0	6$^+$	272.1	4$^+$	E2	0.0801	α(K)= 0.0567; α(L)= 0.0180; α(M)= 0.00425; α(N+..)= 0.00127
389.3 *2*	98 *5*	954.3	8$^+$	565.0	6$^+$	E2	0.0349	α(K)= 0.0264; α(L)= 0.00658; α(M)= 0.00153; α(N+..)= 0.000464

[†] Weighted average of values from 1970Tu07 and 1967Bo33.
[‡] From 1970Tu07.
[#] From adopted gammas, unless otherwise specified.
[@] For absolute intensity per 100 decays, multiply by 0.93 *2*.
[&] 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.

<u>^{176}Yb IT decay (11.4 s)   1970Tu07,1967Bo33</u>

<u>Decay Scheme</u>   Legend

Intensities: I$_{(\gamma+ce)}$ per 100 decays through this branch   ——————————▶ I$_\gamma$ < 2%×I$_\gamma^{max}$
%IT=100.0   ——————————▶ I$_\gamma$ < 10%×I$_\gamma^{max}$
                                                                          ——————————▶ I$_\gamma$ > 10%×I$_\gamma^{max}$

$^{176}_{70}$Yb$_{106}$