^{167}Tb β^- decay   **1999As03**

		History	
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 90, 431 (2000)	5-Jul-2000

Parent: ^{167}Tb: E=0.0; J^π=(3/2$^+$); T$_{1/2}$=19.4 s 27; Q(β^-)=4100 SY; %β^- decay=100.0

Sources from on-line isotope separation of products from 20-MeV proton induced fission of ^{238}U; measured Eγ, Iγ, I(Kα x ray), K x ray(t), γ(t), $\beta\gamma$ coin.

^{167}Dy Levels

E(level)†	J$^{\pi\ddagger}$
0.0$^\#$	(1/2$^-$)
57.2$^\#$ 2	(3/2$^-$)
69.7$^\#$ 2	(5/2$^-$)
97.8? 3	(5/2$^-$)

† From Eγ.
‡ From Adopted Levels.
$^\#$ Band(A): probable 1/2[521] band (1999As03).

$\gamma(^{167}$Dy)

E$_\gamma$ is from 1999As03. Iγ is unstated by authors; however, from $\beta\gamma$ spectrum (fig. 1), I(57γ) and I(70γ) are comparable.
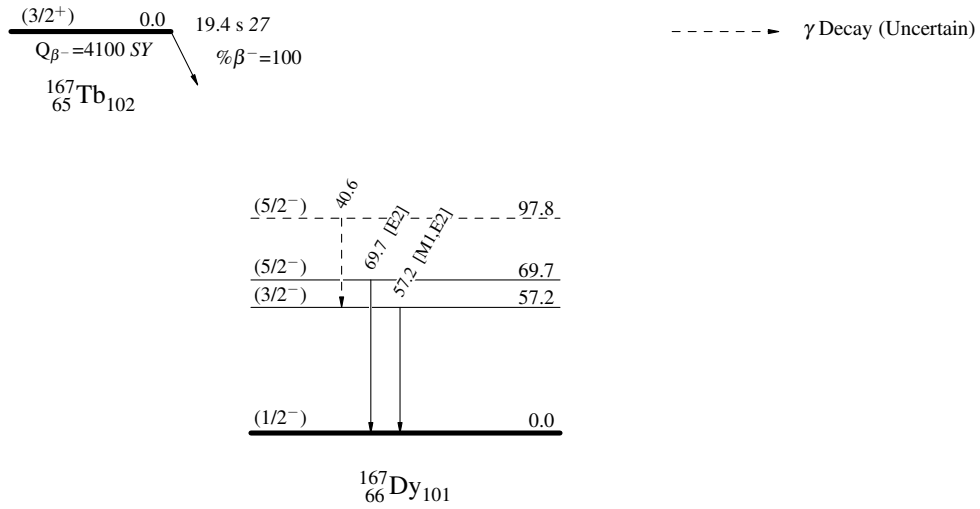
E$_\gamma$	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Mult.	$\alpha^\dagger$
40.6‡ 2	97.8?	(5/2$^-$)	57.2	(3/2$^-$)		
57.2	57.2	(3/2$^-$)	0.0	(1/2$^-$)	[M1,E2]	19 6
69.7 2	69.7	(5/2$^-$)	0.0	(1/2$^-$)	[E2]	11.1

† 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.
‡ Placement of transition in the level scheme is uncertain.

^{167}**Tb** β^- **decay**   **1999As03**

Decay Scheme   Legend

(3/2$^+$)   0.0   19.4 s *27*   - - - - - - ▶ γ Decay (Uncertain)

Q$_{\beta^-}$=4100 *SY*   %β^-=100

$^{167}_{65}$Tb$_{102}$

(5/2$^-$) - - - - - - - - - - - 97.8

40.6

69.7 [E2]

57.2 [M1,E2]

(5/2$^-$)   69.7
(3/2$^-$)   57.2

(1/2$^-$)   0.0

$^{167}_{66}$Dy$_{101}$

^{167}**Tb** β^- **decay   1999As03**

Band(A): Probable
1/2[521] band (1999As03)

(5/2$^-$)   69.7

(3/2$^-$)   57.2

70

57

(1/2$^-$)   0.0

$^{167}_{66}$Dy$_{101}$