

Adopted Levels, Gammas 2004Ti06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. L. Godwin, et al.		NP A745 155 (2004)	31-Mar-2004

$Q(\beta^-) = -2.31 \times 10^4$ 4; $S(n) = 21283.5$ 22; $S(p) = 4006.7$ 10; $Q(\alpha) = -5101$ 6 2012Wa38

Note: Current evaluation has used the following Q record -23.10E3 4021283.1 21 4006.0 10-5101.2 50 2003Au03.

 ^{10}C LevelsCross Reference (XREF) Flags

A	$^1\text{H}(^{10}\text{C}, \text{P}10\text{C})$	E	$^{10}\text{B}(^3\text{He}, \text{t})$
B	$^7\text{Li}(^3\text{He}, \pi^-)$	F	$^{12}\text{C}(\text{p}, \text{t})$
C	$^9\text{Be}(\text{p}, \pi^-)$	G	$^{13}\text{C}(^3\text{He}, ^6\text{He})$
D	$^{10}\text{B}(\text{p}, \text{n})$		

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	0^+	19.290 s 12	A CDEFG	$\% \epsilon + \% \beta^+ = 100$ T=1 $T_{1/2}$: from weighted average of $T_{1/2} = 19.270$ s 80 (1963Ba52), $T_{1/2} = 19.282$ s 20 (1974Az01), $T_{1/2} = 19.300$ s 41 (1990Ba02), and $T_{1/2} = 19.294$ s 16 (1990Ba02). Others: 19.151 s 26 (Robinson 1974 NPA) and 19.480 s 50 (Earwaker 1962 Nature).
3353.7 6	2^+	107 fs 17	ABCDEFG	$\% \text{IT} = 100$ E(level): from weighted average of 3352.7 keV 15 from $^{10}\text{B}(\text{p}, \text{n})$ and 3353.9 keV 7 from $^{12}\text{C}(\text{p}, \text{t})$. Γ : Γ_γ : from $^{10}\text{B}(\text{p}, \text{n})$ (1968Fi09).
5220 [†] 40		225 keV 45	CDEF	E(level): Γ : from $^{10}\text{B}(^3\text{He}, \text{t})$.
5380 [†] 70		300 keV 60	CDEF	J^π : one of these two states is presumably a 2^+ state. E(level): Γ : from $^{10}\text{B}(^3\text{He}, \text{t})$.
6580 [†] 20	(2^+)	190 keV 35	CDEF	E(level): Γ : from $^{10}\text{B}(^3\text{He}, \text{t})$.
≈ 9000 [†]			D	E(level): from $^{10}\text{B}(\text{p}, \text{n})$.
≈ 10000 [†]			D	E(level): from $^{10}\text{B}(\text{p}, \text{n})$.
≈ 16500 [†]	(2^+)		D	E(level): from $^{10}\text{B}(\text{p}, \text{n})$. J^π : presumed analog of $^{10}\text{B}^*(18.80)$ (1993Wa06).

[†] Decay mode not specified.

 $\gamma(^{10}\text{C})$

$E_i(\text{level})$	J_i^π	E_γ [†]	I_γ	E_f	J_f^π	Mult.	Comments
3353.7	2^+	3353.6	100	0.0	0^+	E2	$\Gamma_\gamma = 4.25 \times 10^{-3}$ eV 69; B(E2)(W.u.) = 9.5 15

[†] From level energy difference; recoil correction applied.

Adopted Levels, Gammas 2004Ti06Level Scheme

Intensities: Relative photon branching from each level

