Table 12.24 from (2017KE05): Branching in ^{12}B(β^-)^{12}C

Decay to ^{12}C* (MeV $\pm$ keV)	Branch (%)	log ft [a]	Refs.
g.s.	$\mathbf{98.216 \pm 0.028}$ [b]	4.0617 ± 0.0005	
$\mathbf{E_\gamma = 4.43891 \pm 0.31}$ [c]	$\mathbf{1.182 \pm 0.019}$ [d]	5.143 ± 0.007	(1981KA31)
$\mathbf{7.6543 \pm 2.0}$ [e, f]	$\mathbf{0.54 \pm 0.02}$	4.574 ± 0.017	
	1.3 ± 0.4		(1957CO59)
	1.1 ± 0.3 [g]		(1963AL15)
	0.54 ± 0.02 [h, m]		(2009HY01)
	0.63 ± 0.11 [i]		(2016MU06)
$\mathbf{10.3 \pm 0.3}$ [j]	$\mathbf{0.062 \pm 0.003}$	4.29 ± 0.20	
	0.13 ± 0.04 [k]		(1958CO66)
	0.07 ± 0.02 [k]		(1963WI05)
[9-12 MeV] [n]	0.063 ± 0.003 [h, m]		(2009HY01)
	0.055 ± 0.007 [l, m]		(2009HY01)
12.7	$\mathbf{(2.6 \pm 0.2) \times 10^{-4}}$	3.91 ± 0.04	
	$(2.6 \pm 0.2) \times 10^{-4}$ [h, m]		(2009HY01)
	$(3.2 \pm 0.7) \times 10^{-4}$ [l, m]		(2009HY01)

[a] Based on $Q_\mathrm{m} = 13369.4 \pm 1.3$ keV and $T_{1/2} = 20.20 \pm 0.02$ ms.

[b] 100% minus the branching ratios measured to excited states.

[c] (1967CH19)

[d] See Table 12.23.

[e] Based on (2012WA38) and $Q = 379.6 \pm 2.0$ keV (1973BA73).

[f] See also $E_\mathrm{x} = 7657.8 \pm 1.0$ value from (2016MU06).

[g] In the original manuscript, the value (1.7 ± 0.5)% is calculated using $\Gamma_\gamma/\Gamma = (2.9 \pm 0.3) \times 10^{-4}$ and $B(4.4) = (1.3 \pm 0.1)$%. Here we used $\Gamma_\gamma/\Gamma = 4.16$ and $B(4.4) = (1.182 \pm 0.019)$%.

[h] Analysis of KVI data in (2009HY01).

[i] In the original manuscript, the value (0.64 ± 0.11)% is calculated using $\Gamma_\gamma/\Gamma = (4.07 \pm 0.11) \times 10^{-4}$. Here we used $\Gamma_\gamma/\Gamma = (4.16 \pm 0.11) \times 10^{-4}$.

[j] $\Gamma = 3.0 \pm 0.7$ MeV and $\theta_\alpha^2 \approx 1.5$ (1966SC23).

[k] The analysis neglected β feeding to ^{12}C*(12.71).

[l] Analysis of JYFL data in (2009HY01).

[m] In (2009HY01) the branching ratios are normalized to $B(4.44) = (1.28 \pm 0.04)$% from (1990AJ01). In the present evaluation we adopted (1.182 ± 0.019)%. In the table the (2009HY01) values have been renormalized (decreased) to the updated $B(4.44)$.

[n] (2009HY01) integrated the strength in the E_x = 9-12 MeV region rather than attributing the strength to a 10.3 MeV group, see discussion.