
 ^{212}Bi β^- decay (7.0 min) [1984Es01,1980Le27](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	K. Auranen and E. A. Mccutchan		NDS 168, 117 (2020)	1-Aug-2020

Parent: ^{212}Bi : $E=1478.38$; $J^\pi=(18^-)$; $T_{1/2}=7.0$ min 3; $Q(\beta^-)=2251.5$ 17; $\%\beta^-$ decay ≤ 25.0

^{212}Bi - J^π : Shell-model prediction ([2013Ch12](#)). Others: $J\geq 16$ from β -decay to (18^+) level in ^{212}Po .

^{212}Bi -E: From Schottky mass spectrometry ([2013Ch12](#)).

^{212}Bi - $\%\beta^-$ decay: $\%IT\geq 75$ estimated from long half-life of highly-charged ions, for which internal conversion is suppressed ([2013Ch12](#)).

[1984Es01](#): ^{212}Bi activity produced by $^{204}\text{Hg}(^{18}\text{O}, ^{14}\text{N})$, $^{205}\text{Tl}(^{18}\text{O}, ^{11}\text{C})$, $^{208}\text{Pb}(^{18}\text{O}, ^{14}\text{N})$ with $E(^{18}\text{O})=99\text{-}195$ MeV. Measured $E\alpha$, β - α coincidences.

 ^{212}Po Levels

$E(\text{level})^\dagger$	$J^\pi^\dagger$	Comments
2922 15	(18^+)	E(level): level decays only by emission of 11.65 MeV α particles (1980Le27).

† From the Adopted Levels.

 β^- radiations

E(decay)	E(level)	$I\beta^-^\dagger$	Log ft	Comments
$(8.1\times 10^2\ 4)$	2922	≈ 100	>4.4	av $E\beta=255$ 13

† For absolute intensity per 100 decays, multiply by ≤ 0.25 .