^{210}Bi β^- decay (5.012 d) 1971Be01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 121, 561 (2014)	31-Mar-2014

Parent: ^{210}Bi: E=0.0; $J^\pi=1^-$; $T_{1/2}$=5.012 d *5*; Q(β^-)=1162.2 *8*; %β^- decay=100.0

1971Be01: Measured internal bremsstrahlung (IBS) at 7 angles (θ=15° to 120°) via (β)-(IBS) coin. Others: 1966Mu08, 1969Fl02, 1983El09.

1977Sc07: L_α x ray/L_β x ray/L_γ x ray exp=2.41 *19*/2.37 *19*/0.44 *4*; L x ray/Xb- exp=5.1×10^{-4} *5*, from L-shell autoionization in β^- decay. Other: 1954Bo01.

^{210}Po Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+	138.376 d *2*	J^π,$T_{1/2}$: From Adopted Levels.

β^- radiations

E(decay)	E(level)	Iβ^-[†]	Log *ft*	Comments
1161.5 *15*	0.0	100	8.0	av Eβ= 389.0 *4* E(decay): from 1967Hs01; F-K, shape factor analyses; semi detector. Other values: 1155 *5* (1954Pl30), 1160.5 *5* (1962Da03); 1162.1 *8* (1995Au04). see also 1939Fl02, 1940Ne04, 1949La06, 1953Ba80, 1955Li02, 1969Fl02. Measured longitudinal pol (-v/c)=0.718 *24* for Eβ=900 keV (1977Po08); pol(-v/c)=0.70 *7*, 0.70 *5*, 0.71 *5* for Eβ=150-, 220- and 300 keV, respectively (1980Ri07). Others: 1958Ge34, 1958Bu09, 1959Al01, 1959We31, 1961Ul01, 1964Sc11, 1965Cu04. β shape factor and longitudinal pol data of others analyzed (1974Be23). β anisotropy via pol ^{210}Bi decay studied (1973NaYV). β transition proceeds from Configuration=((π $1h_{9/2}$) (ν $2g_{9/2}$)) to Configuration=(π $1h_{9/2}$)^2 predominantly.

[†] Absolute intensity per 100 decays.