^{193}Bi α decay (3.2 s) 1985Co06

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, Balraj Singh	NDS 142, 1 (2017)	15-Apr-2017

Parent: ^{193}Bi: E=308 *7*; J^{π}=(1/2$^+$); $T_{1/2}$=3.2 s *5*; Q(α)=6307 *5*; %α decay=84 *16*

^{193}Bi-E,J^{π},$T_{1/2}$: From ^{193}Bi Adopted Levels in the ENSDF database (cf. 2006Ac01 evaluation).

^{193}Bi-Q(α): From 2017Wa10.

^{193}Bi-%α decay: %α=84 *16* (^{193}Bi Adopted Levels in the ENSDF database, cf. 2006Ac01 evaluation).

Sources from ^{14}N bombardments of Ir, ^{16}O bombardments of Re, and ^{20}Ne bombardments of ^{181}Ta; mass separation; measured Eα, Iα, time-sequential α and γ spectra.

Other measurements: 1966Si11, 1970Ta14, 1972Ga27, 1974Le02.

^{189}Tl Levels

E(level)	J^{π}[†]
0.0	(1/2$^+$)

[†] From Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
6475 *5*	0.0	100	0.9 *2*	Eα: other value: 6480 *10* (1972Ga27,1974Le02).

[†] r_0=1.506 *10*, from interpolation of radii for neighboring even-even nuclei.

[‡] For absolute intensity per 100 decays, multiply by 0.84 *16*.