

^{206}Po α decay 1967Ti04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 196,342 (2024)	1-Sep-2023

Parent: ^{206}Po : E=0.0; $J^\pi=0^+$; $T_{1/2}=8.8$ d I ; $Q(\alpha)=5327.0$ I_3 ; % α decay=5.45 5

1967Ti04: ^{206}Po sample was made by $^{209}\text{Bi}(p,4n)$. E(p)=110 to 130 MeV with proton flux of 10^{13} protons/sec. Target: 0.5 to 1 g/cm² bismuth-oxide powder. Irradiation time: 10 to 30 min. ^{206}Po chemically separated. Si(Li) detector.

Others: [1969Go23](#), [1970Ra14](#).

 ^{202}Pb Levels

E(level)	J^π	$T_{1/2}$
0.0	0^+	5.25×10^4 y 28

 α radiations

E α	E(level)	I α [‡]	HF [†]	Comments
5223.5 15	0.0	100	1.000	E α : Weighted average of E α =5224 keV 4 (1967Ti04), 5224 keV 2 (1969Go23) and 5222 keV 3 (1970Ra14). Others: 5229 keV 5 (1970AfZZ),

[†] $r_0(^{202}\text{Pb})=1.4547$ 10 is calculated from HF(5223.5 α)=1.0.

[‡] For absolute intensity per 100 decays, multiply by 0.0545 5.