^{208}Po α decay 1966Ha29

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. J. Chiara and F. G. Kondev	NDS 111,141 (2010)	1-Oct-2009

Parent: ^{208}Po: E=0.0; $J^\pi=0^+$; $T_{1/2}$=2.898 y *2*; Q(α)=5215.3 *13*; %α decay=99.9960 *4*

1996Ha29: several-mCi ^{208}Po source produced via ^{209}Bi(p,2n), 0.1-mCi source produced via N irradiation of Bi; α singles and α-γ coin studied with NaI(Tl) and surface-barrier detectors; measured Eα, Iα.

^{204}Pb Levels

E(level)[†]	J^π[†]
0.0	0^+
899.166 *25*	2^+

[†] From Adopted Levels.

α radiations

Eα	E(level)	Iα[†#]	HF[‡]	Comments
4220 *15*	899.166	0.00024 *7*	0.62 *19*	Eα,Iα: From 1966Ha29.
5114.9 *14*	0.0	99.99976 *7*	1.000	Eα: Recommended by 1991Ry01.

[†] α intensity per 100 α decays.
[‡] $r_0(^{204}Pb)$=1.4297 *7* is calculated from Hf(5114.9α)=1.0.
[#] For absolute intensity per 100 decays, multiply by 0.999960 *4*.