## $^{207}$Po $\alpha$ decay 1991Ry01,1967Ti04,1970AfZZ

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | F. G. Kondev | NDS 177, 509, 2021 | 4-Jul-2021 |

Parent: $^{207}$Po: E=0; $J^{\pi}=5/2^{-}$; $T_{1/2}=5.80$ h *2*; Q($\alpha$)=5215.9 *25*; %$\alpha$ decay=0.021 *2*
$^{207}$Po-$J^{\pi}$,$T_{1/2}$: From Adopted Levels in 2011Ko04.
$^{207}$Po-Q($\alpha$) from 2021Wa16.

### $^{203}$Pb Levels

| E(level) | $J^{\pi}$ |
|---|---|
| 0 | $5/2^{-}$ |

### $\alpha$ radiations

| E$\alpha$ | E(level) | I$\alpha$[‡] | HF[†] | Comments |
|---|---|---|---|---|
| 5115.4 *24* | 0 | 100 | 1.38 *15* | E$\alpha$: Value recommended by 1991Ry01, based on 5120 keV *10* (1967Ti04) and 5115.0 keV *25* (1970AfZZ). |

[†] Using $r_0(^{203}Pb)$=1.442 *13*, unweighted average of 1.4550 *17* for $^{202}$Pb and 1.4297 *7* for $^{204}$Pb, both values determined from HF(E$\alpha$)=1.
[‡] For absolute intensity per 100 decays, multiply by 0.00021 *2*.