^{209}Pb β^- decay 1972Be44

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. Chen # and F. G. Kondev	NDS 126, 373 (2015)	30-Sep-2013

Parent: ^{209}Pb: E=0.0; $J^\pi=9/2^+$; $T_{1/2}$=3.234 h *7*; Q(β^-)=644.0 *11*; %β^- decay=100.0

^{209}Pb-Q(β^-): from 2012Wa38.

^{209}Pb-J^π,$T_{1/2}$: from Adopted Levels of ^{209}Pb.

1972Be44: Source prepared by a (d,p) reaction using the internal beam of the Karlsruhe isochronous cyclotron. Measured $T_{1/2}$, Eβ using an iron-free intermediate image β-spectrometer. Deduced log *ft*, shape factor.

Others: 1986He06, 1981Di14, 1971Pe03, 1953Wa61.

No γ, K x-ray (<1%), no ce with E(ce)>30 keV (≤2%) (1953Wa61).

^{209}Bi Levels

E(level)	J^π	Comments
0.0	$9/2^-$	J^π: From Adopted Levels.

β^- radiations

E(decay)	E(level)	Iβ^- †	Log *ft*	Comments
644.6 *12*	0.0	100	5.534 *3*	av Eβ= 197.5 *4* E(decay): from 1972Be44. Others: 634 *4* (1971Pe03), 634 *10* (1968Va17), 635 *10* (1953Wa61). No deviation observed from allowed shape (1971Pe03,1972Be44).

† Absolute intensity per 100 decays.