^{84}Rb β^- decay (32.82 d)   1958Be81

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	B. Singh, A. Negret, and K. Zuber	NDS 110,2815 (2009)	30-Sep-2009

Parent: ^{84}Rb: E=0; J$^\pi$=2$^-$; T$_{1/2}$=32.82 d *7*; Q(β^-)=896 *3*; %β^- decay=3.9

^{84}Rb-Q(β^-): From 2009AuZZ. Other: 894 *3* (2003Au03).

^{84}Rb-J$^\pi$,T$_{1/2}$: from Adopted Levels for ^{84}Rb.

^{84}Rb-%β^- decay: %β^-=3.9 *20* from decay mode of ^{84}Rb g.s. in ^{84}Rb Adopted Levels. Uncertainty is not quoted in the data field to avoid it being considered twice in deducing the absolute β feeding.

1958Be81: measured Eβ, Iβ, magnetic spectrometer.

^{84}Sr Levels

E(level)	J$^\pi$	T$_{1/2}$
0	0$^+$	stable

β^- radiations

E(decay)	E(level)	I$\beta^{-\dagger}$	Log *ft*	Comments
(896 *3*)	0	3.9 *20*	9.4^{1u} *3*	av Eβ= 332.8 *13* Iβ^-: deduced by the evaluator from Iβ^-(g.s.)/Iβ^+(g.s.)=0.29 *15* (an estimate by 1958Be81 with a 50% uncertainty assumed by the evaluator) and Iβ^+(g.s.)=13.7% *9*, calculated by the evaluator from the following information: Iβ^+(881.4)/Iβ^+(g.s.)=0.97 *5* (average of 0.92 and 1.008 *12* as deduced from β^+ spectra (1971Bo01) and $\gamma^\pm\gamma^\pm$ and $\gamma^\pm\gamma^\pm$881γ triple coincidences (1971Ge10), respectively), ε(g.s.)/Iβ^+(g.s.)=1.015 *12* (theory, deduced using Q(β^-)=−2686 keV *3* (2009AuZZ)) and ε(881.4)/Iβ^+(881.4)=4.43 *18* (1970Go44).

† Absolute intensity per 100 decays.