^{84}Ga β^- decay (0.085 s) 2009LeZZ

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni, M. Fadil, and B. Pfeiffer	NDS 110,2815 (2009)	30-Sep-2009

Parent: ^{84}Ga: E=0.0; J^π=(0$^-$); $T_{1/2}$=0.085 s *10*; Q(β^-)=13690 *SY*; %β^- decay=100.0

^{84}Ga-Q(β^-): 13690 *400* (syst,2009AuZZ). Other: 14140 *500* (syst,2003Au03).

^{84}Ga-%β^- decay: %β^-=100, %β^-n=70 *15*.

2009LeZZ: U(γ,F), E=50 MeV, fission fragments were mass separated and implanted on a tape system, measured γ, $\beta\gamma$. The authors of this work propose two levels for ^{84}Ga on the basis of the gamma intensities in ^{84}Ge β^- and ^{84}Ga β^-n decays.

2009LeZZ is now published as Phys. Rev. C 80, 044308 (2009). The data in the published version are identical to those in preprint.

Additional information 1.

^{84}Ge Levels

E(level)	J^π
0.0	0$^+$

β^- radiations

E(decay)	E(level)	Iβ^-[†][‡]	Log *ft*[†]	Comments
(13690 *SY*)	0.0	≈100	≈5.0	av Eβ=6448

[†] First order estimated value, assuming that the g.s. is fed with Iβ =100%.

[‡] Absolute intensity per 100 decays.