84 32Ge52

⁸⁵Ga β⁻n decay 2009Gr06

History

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

Parent: ⁸⁵Ga: E=0.0; $T_{1/2} \approx 70$ ms; $Q(\beta^{-}n)=9650$ SY; $\%\beta^{-}n$ decay>40.0

⁸⁵Ga-Q(β⁻n): 9650 500 (syst,2009AuZZ). Other: 10120 590 (syst,2003Au03).

⁸⁵Ga-T_{1/2}: as quoted by 2009Gr06 without details as how it was measured. Previous to this result, the ⁸⁵Ga g.s. $T_{1/2}$ was estimated to be>150 ns from the time-of-flight through a mass separator.

⁸⁵Ga- $\%\beta^-$ n decay: $\%\beta^-$ n>40 quoted by 2009Gr06 without details as how it was measured. No other measurement exists. In 2002Pf03, estimates of this branching ratio are equal to 60.39 % using the Kratz-Hermann systematics, and about 100% using QRPA calculations.

2009Gr06: ²³⁸U(p,F), E=54 MeV, fission fragments decay studied using ORNL's Low-energy Radioactive Ion Beam Spectroscopy Station. Measured γ , $\gamma\beta$.

E(level)	\mathbf{J}^{π}	
0.0	0+	
624	(2^{+})	

$\gamma(^{84}\text{Ge})$

⁸⁴Ge Levels

E_{γ}	E_i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}
624	624	(2^{+})	0.0	0^{+}

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Decay Scheme

