

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 125, 201 (2015)	31-Dec-2014

$Q(\beta^-)=8693$ 4; $S(n)=3633$ 3; $S(p)=15335$ 3; $Q(\alpha)=-9969$ 3 [2012Wa38](#)
 $S(2n)=10827$ 3; $S(2p)=29355$ 6, $Q(\beta^-n)=1055$ 5 ([2012Wa38](#)).

 ^{83}Ge LevelsCross Reference (XREF) Flags

A ^{83}Ga β^- decay (308.1 ms)
B ^{84}Ga β^-n decay (85 ms)
C $^2\text{H}(^{82}\text{Ge},p)$

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0	(5/2) ⁺	1.85 s 6	ABC	$\% \beta^- = 100$; $\% \beta^-n = ?$ J ^π : L=2 in $^2\text{H}(^{82}\text{Ge},p)$; systematics of N=51 isotones from ^{89}Sr to ^{95}Ru . T _{1/2} : from $\gamma(t)$ of 306-keV γ ray (1988Wi17). Others: 1.9 s 4, by periodic milking of the ^{83}Se daughter activity (1972De43); ≤ 1.6 s (1974KrZG). $\% \beta^-n$: 0.02 (systematics, 2012Mc04) and 0.1 (QRPA theory, 2002Pf04). XREF: C(280). J ^π : L=0 in $^2\text{H}(^{82}\text{Ge},p)$.
247.2 3	1/2 ⁺		ABC	
1045.52 20			AB	
1237.97 13			A	

[†] From a least-squares fit to E_γ , by evaluator.

 $\gamma(^{83}\text{Ge})$

E _i (level)	J _i ^π	E _γ [†]	I _γ [†]	E _f	J _f ^π
247.2	1/2 ⁺	247.2 3	100	0.0	(5/2) ⁺
1045.52		798.6 10	17 8	247.2	1/2 ⁺
		1045.5 2	100 15	0.0	(5/2) ⁺
1237.97		1237.96 13	100	0.0	(5/2) ⁺

[†] Weighted average of values from ^{83}Ga β^- decay and ^{84}Ga β^-n decay.

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Level Scheme

Intensities: Type not specified

Legend

- $I_{\gamma} < 2\% \times I_{\gamma}^{max}$
- $I_{\gamma} < 10\% \times I_{\gamma}^{max}$
- $I_{\gamma} > 10\% \times I_{\gamma}^{max}$

