

^{138}La β^- decay [1980Mo04](#),[1983No02](#),[2016Qu01](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 146, 1 (2017)	30-Sep-2017

Parent: ^{138}La : $E=0.0$; $J^\pi=5^+$; $T_{1/2}=1.03\times 10^{11}$ y 1; $Q(\beta^-)=1052$ 4; $\% \beta^-$ decay=34.5 4

^{138}La - $J^\pi, T_{1/2}$: From Adopted Levels of ^{138}La .

^{138}La - $Q(\beta^-)$: From [2017Wa10](#).

^{138}La - $\% \beta^-$ decay: From Adopted Levels of ^{138}La .

See ^{138}La adopted and ^{138}La ε decay dataset for additional information.

Others: [1956Tu17](#), [1957Gl20](#), [1966De04](#), [1972El02](#), [1972Ma31](#), [1977Ce04](#), [1979Ta21](#), [1981Sa42](#), [1993Ku22](#), [1997Ni12](#), [2000Ta24](#), [2005Be73](#), [2012Qu02](#), [2015Gi03](#), [2015Gi05](#).

[Additional information 1.](#)

 ^{138}Ce Levels

E(level) [†]	J^π [†]
0.0	0^+
788.744 8	2^+

[†] From Adopted Levels.

 β^- radiations

E(decay)	E(level)	$I\beta^-$ [†]	Log ft	Comments
264 4	788.744	34.5 4	18.05 ^{2u} 4	av $E\beta=97.5$ 37 E(decay): from 2016Qu01 . Other: 205 10 (1957Gl20).

[†] Absolute intensity per 100 decays.

 $\gamma(^{138}\text{Ce})$

E_γ	I_γ [‡]	E_i (level)	J_i^π	E_f	J_f^π	Mult.	α [†]	Comments
788.742 8	100	788.744	2^+	0.0	0^+	E2	0.00342	$\alpha(K)=0.00291$ 4; $\alpha(L)=0.000406$ 6; $\alpha(M)=8.52\times 10^{-5}$ 12 $\alpha(N)=1.88\times 10^{-5}$ 3; $\alpha(O)=3.01\times 10^{-6}$ 5; $\alpha(P)=2.10\times 10^{-7}$ 3 E_γ : from 1980Mo04 . Others: 788.66 7 (1979Ta21), 789.1 5 (1977Ce04), 789.0 3 (1972Gr45), 787.9 3 (1972Ma31). Mult.: from Adopted Gammas.

[†] [Additional information 2.](#)

[‡] For absolute intensity per 100 decays, multiply by 0.345 4.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays