

$^{198}\text{Ir } \beta^- \text{ decay }$ [1972ScYY,1982Ta08](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 133, 221 (2016)	1-Dec-2015

Parent: ^{198}Ir : E=0.0; $T_{1/2}=8$ s I ; $Q(\beta^-)=409\times 10^1$ 20; % β^- decay=100.0

Source produced by $^{198}\text{Pt}(n,p)$ E=14 MeV, Natural, enriched targets; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ coin ([1982Ta08](#)).

Others: [1973Sz03](#), [1973Ur01](#).

 ^{198}Pt Levels

$E(\text{level})^\dagger$	$J^\pi \ddagger$
0.0	0^+
407.4 3	2^+
914.4 5	0^+

† From decay scheme and $E\gamma$'s by using least-squares fit to data.

‡ From Adopted Levels.

 β^- radiations

$E(\text{decay})$	$E(\text{level})$
$(3.18\times 10^3 \dagger \ 20)$	914.4
$(4.09\times 10^3 \ 20)$	0.0

† Existence of this branch is questionable.

 $\gamma(^{198}\text{Pt})$

$I\gamma$ normalization: Undetermined.

E_γ^\dagger	$I_\gamma^\dagger \ddagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. $^\#$	$\alpha @$	Comments
407.4 3	76 10	407.4	2^+	0.0	0^+	[E2]	0.0417	$\alpha(K)=0.0291 \ 5$; $\alpha(L)=0.00952 \ 14$; $\alpha(M)=0.00234 \ 4$; $\alpha(N+..)=0.000674 \ 10$
507.0 3	100 7	914.4	0^+	407.4	2^+	[E2]	0.0239	$\alpha(K)=0.01771 \ 25$; $\alpha(L)=0.00474 \ 7$; $\alpha(M)=0.001149 \ 17$; $\alpha(N+..)=0.000332 \ 5$

† From [1982Ta08](#).

‡ Relative intensity normalized to $I\gamma(507.0\gamma)=100$ 7.

$^\#$ From Adopted Gamma radiations.

$^\alpha$ Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

