^{208}Bi ε decay

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	M. J. Martin	NDS 108,1583 (2007)	1-Jun-2007

Parent: ^{208}Bi: E=0.0; J$^\pi$=5$^+$; T$_{1/2}$=3.68×10^5 y *4*; Q(ε)=2878.4 *20*; %ε+%β^+ decay=100.0

^{208}Pb Levels

E(level)	J$^\pi$
0.0	0$^+$
2614.5	3$^-$

ε,β^+ radiations

E(decay)	E(level)	I$\varepsilon^\dagger$	Log ft	I($\varepsilon+\beta^+$)†	Comments
(263.9 *20*)	2614.5	100	12.46^{1u} *2*	100	εK=0.431 *5*; εL=0.406 *3*; εM+=0.1635 *15* εK(exp)=0.24 *1* from K x ray/γ (1959Mi19) yields Q+=2813 *3* In disagreement with the adopted value of 2878.4 *20*.

† Absolute intensity per 100 decays.

γ(^{208}Pb)

Iγ normalization: from I(2610γ)=100.

E$_\gamma$	I$_\gamma^\dagger$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.	$\alpha^\ddagger$	Comments
2614.5	100	2614.5	3$^-$	0.0	0$^+$	E3	0.00247	E$_\gamma$: rounded-off value from Adopted Gammas.

† For absolute intensity per 100 decays, multiply by 0.99785.
‡ 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.

<u>^{208}**Bi** ε **decay**</u>

<u>Decay Scheme</u>

Intensities: $I_{(\gamma+ce)}$ per 100 decays through this branch

5^+ 0.0 3.68×10^5 y *4*

$\%\varepsilon + \%\beta^+ = 100$

$Q_\varepsilon = 2878.4$ *20*

$^{208}_{83}$Bi$_{125}$

2614.5 E3 100

	$\underline{I\varepsilon}$	$\underline{\text{Log } ft}$
	100	12.46^{1u}

3^- 2614.5

0^+ 0.0

$^{208}_{82}$Pb$_{126}$