$^{65}\text{Se}\ \varepsilon$ decay   **2011RoZZ,1993Ba12**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 111, 2425 (2010)	1-Aug-2009

Parent: ^{65}Se: E=0.0; J^{π}=(3/2$^-$); $T_{1/2}$=33 ms *4*; Q(ε)=1.40×10^4 *6*; %ε+%β^+ decay=100.0
^{65}Se-$T_{1/2}$: From 2011RoZZ.
2011RoZZ: ^{65}Se activity produced by ^{nat}Ni(^{78}Kr,X) reaction with E(^{78}Kr)=70 MeV/nucleon. Measured p, γ.
1993Ba12: ^{65}Se activity produced by ^{40}Ca(^{28}Si^{+6},3n) reaction with E(^{28}Si)=175 MeV. Measured p.
Other:1995Hu24.

^{65}As Levels

E(level)	Comments
0.0	
3420 *87*	%p=100
	IAS.
	Decays to ^{64}Ge by p, E(p)=3.52 MeV *2* (weighted average of 2011RoZZ and 1993Ba12). Other: 3.70 MeV *8* (1995Hu24).

ε,β^+ radiations

E(decay)	E(level)	Iβ^+ [†]	Iε [†]	Log ft	I($\varepsilon+\beta^+$) [†]	Comments
(1.06×10^4 *6*)	3420	48 *15*	0.057 *21*	3.57 *20*	48 *15*	av Eβ=4.55×10^3 *30*; εK=0.00104 *23*; εL=0.000117 *25*; εM+=2.2×10^{-5} *5*
						I($\varepsilon+\beta^+$),Log ft: assumed super-allowed.
						Iβ^+: from 2011RuZZ.

[†] Absolute intensity per 100 decays.