^{115}In β^- decay (4.486 h)   **1974Ha39**

| | | History | |
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 2391 (2012)	1-Sep-2012

Parent: ^{115}In: E=326.244 *17*; J^π=1/2$^-$; $T_{1/2}$=4.486 h *4*; Q(β^-)=497.489 *10*; %β^- decay=5.0 *7*

^{115}In-%β^- decay: Iβ=5.0% *7* (1974Ha39) from I(ce+β^-)/Iγ(336γ).

Additional information 1.

^{115}Sn Levels

E(level)	J^π	$T_{1/2}$
0.0	1/2$^+$	stable
497.37	3/2$^+$	

β^- radiations

E(decay)	E(level)	I$\beta^{-\dagger}$	Log ft	Comments
(326.363 *20*)	497.37	0.047	7.3	av Eβ= 97 *3*
830 *20*	0.0	5.0 *7*	6.7	av Eβ= 279 *4*

E(decay): E(β^-)=830 *30* (1962Se03), 840 (1952La02), 830 *20* (1949Be53).

Iβ^-: from measured I(ce+β^-)/Iγ(336γ) via ^{115}In IT decay + β^- decays if β^- component to 497 level is neglected. Others: Iβ=5.5% (1952La02), 3.7% *8* (1966Gr14).

† For absolute intensity per 100 decays, multiply by 20.0.

$\gamma(^{115}$Sn)

Iγ normalization: from Iγ(497γ)/Iγ(336γ,^{115}In)=0.00103 *2* (1974Ha39). Others: 0.00110 *2* (1978He08), 0.0013 (1967Mu08).

E_γ	$I_\gamma{}^\dagger$	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	$\alpha^\ddagger$	Comments
497.370 *29*	0.047 *1*	497.37	3/2$^+$	0.0	1/2$^+$	M1+E2	+0.21 *2*	0.00805 *1*	α(K)=0.00699; α(L)=0.00085; α(M)=0.00017
									E_γ: 497.370 *29* (1978He08), 497.4 *5* (1974Ha39), 497.3 *5* (1967Mu08).
									I_γ: photons per 100 decays of isomer=0.047 *1* (1974Ha39). Other: 0.025 *1* (1978He08).

† Absolute intensity per 100 decays.

‡ 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.

^{115}In β^- decay (4.486 h)   1974Ha39

Decay Scheme

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

1/2⁻   326.244   4.486 h *4*

Q$_{\beta^-}$=497.489 *10*   %β^-=5.0

$^{115}_{49}$In$_{66}$

Iβ^-	Log *ft*		497.370 M1+E2 0.047	
0.94	7.3	3/2⁺		497.37
100	6.7	1/2⁺		0.0 stable

$^{115}_{50}$Sn$_{65}$