

^{114}I IT decay [1995ZiZZ](#),[1993ZiZW](#),[1992ZiZZ](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 515 (2012)	1-Jan-2012

Parent: ^{114}I : E=265.9; $J^\pi=(7)$; $T_{1/2}=6.2\text{ s }5$; %IT decay=9 2

[Additional information 1.](#)

Activity: $^{92}\text{Mo}(^{32}\text{S},\text{xpy})$ E=220 MeV ms UNISOR on-line separator.

Measured: γ , x-ray, semi, ce.

 ^{114}I Levels

E(level)	$J^\pi^\dagger$	$T_{1/2}$
0.0	1^+	2.1 s
103.2	$(2)^-$	
131.4	(4)	
265.9	(7)	6.2 s 5

† From Adopted Levels.

 $\gamma(^{114}\text{I})$

E_γ	I_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f	Mult. †	$\alpha^\ddagger$	Comments
28.2		131.4	(4)	103.2	$(2)^-$	Q		
103.2 4	10.0 3	103.2	$(2)^-$	0.0	1^+	E1	0.188	$\alpha(\text{K})=0.1614$; $\alpha(\text{L})=0.02113$; $\alpha(\text{M})=0.00418$; $\alpha(\text{N}+..)=0.00098$ $\alpha(\text{K})_{\text{exp}}=0.23\ 4$
134.5 2	0.9 2	265.9	(7)	131.4	(4)	M3	17.9	$\alpha(\text{K})=12.81$; $\alpha(\text{L})=4.01$; $\alpha(\text{M})=0.869$; $\alpha(\text{N}+..)=0.2263$ $\alpha(\text{K})_{\text{exp}}=11.8\ 5$ $\text{B}(\text{M3})(\text{W.u.})=0.702\ 22$

† From [1995ZiZZ](#).

‡ 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.

^{114}I IT decay 1995ZiZZ,1993ZiZW,1992ZiZZ

Decay Scheme

Intensities: Relative I_γ
%IT=9.2

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$

