

^{114}In IT decay (49.51 d) 1969Co04,1994Co02

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

Parent: ^{114}In : E=190.2682 8; $J^\pi=5^+$; $T_{1/2}=49.51$ d *I*; %IT decay=96.75 24Measured: $E\gamma$, $I\gamma$ (1969Co04); ε (1956Gr35); ce (1967El02); double ce (1962Ba43,1964Kl02,1966Gr24,1969Vu02); polarization of ce (1961Sp09,1965Ka06,1966Lo01,1966Va06,1970Va03); $I\gamma(190\gamma)$ (1994Co02, value revised in Priv. Comm. from F. Schima, May 1995). $\gamma\gamma(\theta)$ (1967Fr03,1970Mu11); $X\gamma$ (1970Mu11).

Other measurements: 1956Ke48, 1957Gr75, 1957Ho64, 1961Da01, 1964An12, 1966B110, 1967Ra16, 1974Va07.

See also ^{114}In ε decay (49.51 d). ^{114}In Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	1^+	71.9 s <i>I</i>	
190.27 3	5^+	49.51 d <i>I</i>	$T_{1/2}$: from 1972Me01. Others: 1939Ba03, 1940La07, 1949Bo52, 1949Ma38, 1957Wr37, 1959Ca12.

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

E_γ^\dagger	I_γ^\ddagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	$\alpha^\#$	Comments
190.27 3	15.56 15	190.27	5^+	0.0	1^+	E4	5.22 6	$\alpha(K)=2.58$; $\alpha(L)=2.052$; $\alpha(M)=0.431$; $\alpha(N+..)=0.0868$ $\alpha(K)\exp=2.00$ 9 (1976Re14) $B(E4)(W.u.)=0.0237$ 7 I_γ : from 1994Co02. $\alpha(K)\exp$: $\alpha(K)\exp$ (1976Re14) is 19% smaller than the theoretical value. α : from a comparison of %IT deduced from % $I\gamma(190\gamma)(1+\alpha)$ with the value deduced from %IT=100-% $I\gamma(190\gamma)$ $I\gamma(725\gamma)/I\gamma(190\gamma)$. The E4 theory is 5.15 (uncorrected), and 5.02 corrected with the prescription of 1990Ne01. See Adopted Levels for the intensity ratio data.

[†] From 1974HeYW.[‡] 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.

^{114}In IT decay (49.51 d) 1969Co04,1994Co02Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 decays through this branch
%IT=96.75 24

