

^{121}Cs IT decay [1991Ge02](#)

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|---------|----------------------|------------------------|
| Full Evaluation | S. Ohya | NDS 111, 1619 (2010) | 20-Jan-2009 |

Parent: ^{121}Cs : $E=68.5$ 3; $J^\pi=9/2^{(+)}$; $T_{1/2}=122$ s 3; %IT decay=17.0

Assignment for the 68.5, M3-isomeric transition was made by observation of Cs $\alpha(\text{K})\text{exp}$, K/L, and K x-rays.

 ^{121}Cs Levels

| E(level) | J^π^\dagger | $T_{1/2}$ | Comments |
|----------|-----------------|-----------|--|
| 0.0 | $3/2^{(+)}$ | 155 s 4 | $T_{1/2}$: from 1991Ge02 . Others: 1969Ch18 : 125.6 s 14 for a mixed source of (g.s.+isomer) of ^{121}Cs ; 1981So06 : 136 s 3 affected by admixture of isomeric state. |
| 68.5 3 | $9/2^{(+)}$ | 122 s 3 | $T_{1/2}$: from 1991Ge02 . See comments on $T_{1/2}$ for g.s. |

† From Adopted Levels.

 $\gamma(^{121}\text{Cs})$

| E_γ | $E_i(\text{level})$ | J_i^π | E_f | J_f^π | Mult. | α^\ddagger | $I_{(\gamma+ce)}^\dagger$ | Comments |
|------------|---------------------|-------------|-------|-------------|-------|-------------------|---------------------------|--|
| 68.5 3 | 68.5 | $9/2^{(+)}$ | 0.0 | $3/2^{(+)}$ | M3 | 433 11 | 100 | B(M3)(W.u.)=0.0504 25 ce(K)/($\gamma+ce$)=0.498 13; ce(L)/($\gamma+ce$)=0.387 11; ce(M)/($\gamma+ce$)=0.091 4; ce(N+)/($\gamma+ce$)=0.0215 8 ce(N)/($\gamma+ce$)=0.0191 8; ce(O)/($\gamma+ce$)=0.00237 9; ce(P)/($\gamma+ce$)= 6.34×10^{-5} 23 Additional information 1 . Mult.: $\alpha(\text{K})\text{exp} \geq 120$. K/L=1.2 3. |

† For absolute intensity per 100 decays, multiply by 0.17.

‡ 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.

^{121}Cs IT decay 1991Ge02Decay Scheme

%IT=17.0

