¹⁹⁵Ir IT decay (3.67 h) **1973Ja10**

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Parent: 195 Ir: E=100 5; $J^{\pi}=11/2^{-}$; $T_{1/2}=3.67$ h 8; %IT decay=5 5

Sources generally produced by the following reactions: 198 Pt(d, α n) (1968 Ja06), 198 Pt(p, α) (1973 Ja10) and 192 Os(α ,p) (1968 Ho01). Decay of isomer investigated with Ge(Li) and Si(Li) by observing β and γ rays as well as ce in single and coin measurements. See also 195 Ir β decay (3.67 h).

¹⁹⁵Ir Levels

 γ (195Ir)

 $I(K \times ray,^{195}Ir)/I\gamma(433\gamma,^{195}Pt)<0.7$ (1973Ja10).

E_γ E_i(level) J_i^{π} E_f J_f^{π} Mult. $\alpha^{\frac{\pi}{4}}$ $I_{(\gamma+ce)}^{-}$ Comments

100 5 100 11/2⁻ 0.0 3/2⁺ (M4) 5.0×10³ 20 100 ce(K)/(γ+ce)=0.048 19; ce(L)/(γ+ce)=0.67 21; ce(M)/(γ+ce)=0.22 11; ce(N+)/(γ+ce)=0.06 4 E_γ: undetermined; calculated from Adopted Levels.

¹⁹⁵Ir-%IT decay: IT DECAY unobserved; %IT<10 deduced from ce spectrum (1973Ja10).

[†] From Adopted Levels.

[†] For absolute intensity per 100 decays, multiply by 0.05 5.

 $^{^{\}ddagger}$ 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.

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Decay Scheme %IT=5 5

