

^{184}Au IT decay 1990Ed01,1994RoZY,2005Sa40

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|-----------------|--------------------|------------------------|
| Full Evaluation | Coral M. Baglin | NDS 111,275 (2010) | 1-Oct-2009 |

Parent: ^{184}Au : E=68.46 4; $J^\pi=2^+$; $T_{1/2}=47.6$ s 14; %IT decay=30 10

 ^{184}Au Levels

| E(level) [†] | J^π [‡] | $T_{1/2}$ [‡] | Comments |
|-----------------------|----------------------|------------------------|--|
| 0.0 | 5 ⁺ | 20.6 s 9 | |
| 68.46 4 | 2 ⁺ | 47.6 s 14 | %IT=30 10 (1994RoZY); % ϵ +% β^+ =70 10 |

[†] From E_γ .

[‡] from Adopted Levels.

 $\gamma(^{184}\text{Au})$

| E_γ [†] | $E_i(\text{level})$ | J_i^π | E_f | J_f^π | Mult. [‡] | $\alpha^{\text{@}}$ | $I_{(\gamma+ce)}$ ^{\#} | Comments |
|-------------------------|---------------------|----------------|-------|----------------|--------------------|---------------------|---------------------------------|--|
| 68.46 4 | 68.46 | 2 ⁺ | 0.0 | 5 ⁺ | M3 | 3.19×10^3 | 100 | $\alpha(\text{L})=2.29 \times 10^3$ 4; $\alpha(\text{M})=694$ 10; $\alpha(\text{N}+..)=208$ 3 $\alpha(\text{N})=178$ 3; $\alpha(\text{O})=29.4$ 5; $\alpha(\text{P})=0.774$ 11 Mult.: L3/(L1+L2)=1.6 4, L2<<L1 (1990Ed01). (L1+L2):L3:M:N:O=232 35:397 60:197 30:45 7:18 6 (2005Sa40). |

[†] From 2005Sa40.

[‡] From subshell ratios (2005Sa40).

^{\#} For absolute intensity per 100 decays, multiply by 0.30 10.

[@] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

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Decay Scheme

%IT=30 10

