

Coulomb excitation 1979Bo02

| Type | Author | History Citation | Literature Cutoff Date |
|-----------------|----------------|----------------------|------------------------|
| Full Evaluation | Huang Xiaolong | NDS 108, 1093 (2007) | 1-Jan-2006 |

$^{196}\text{Hg}(^{16}\text{O}, ^{16}\text{O}') E=56-64 \text{ MeV}$. $^{196}\text{Hg}(\alpha, \alpha') E=15 \text{ MeV}$. Natural target. Ge(Li) detectors placed at 0° and 117° .

 ^{196}Hg Levels

| E(level) [†] | J ^π [‡] | T _{1/2} | Comments |
|-----------------------|-----------------------------|------------------|--|
| 0.0 | 0 ⁺ | stable | |
| 426.1 10 | 2 ⁺ | 17.3 ps 3 | B(E2) [†] =1.12 2 (1979Bo02) T _{1/2} : deduced from B(E2) (1979Bo02). |

[†] From least-squares fit to Eγ's.

[‡] From Adopted Levels.

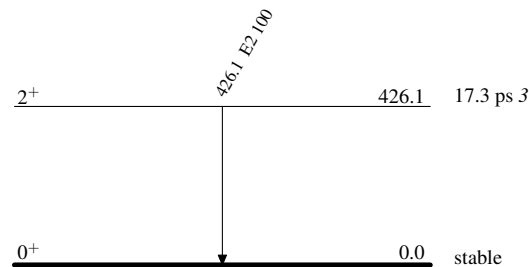
γ(^{196}Hg)

| E _γ | I _γ | E _i (level) | J _i ^π | E _f | J _f ^π | Mult. | α [†] | Comments |
|----------------|----------------|------------------------|-----------------------------|----------------|-----------------------------|-------|----------------|---|
| 426.1 | 100 | 426.1 | 2 ⁺ | 0.0 | 0 ⁺ | E2 | 0.0402 | α(K)=0.0277 4; α(L)=0.00942 14; α(M)=0.00234 4; α(N+..)=0.000690 10 B(E2)(W.u.)=42.9 12 (1977BoYS). |

[†] 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.

Coulomb excitation 1979Bo02Level Scheme

Intensities: Relative I_γ



$^{196}_{80}\text{Hg}_{116}$