| Туре | Author | Citation | Literature Cutoff Date |
|-----------------|--------------|--------------------|------------------------|
| Full Evaluation | F. G. Kondev | NDS 196,342 (2024) | 1-Sep-2023 |

2005Ca02: Projectile fragmentation of ²⁰⁸Pb beam at 1 GeV from the GSI UNILAC and SIS-18 accelerator complex on a 1.6 g/cm²-thick ⁹Be target. Fragment Recoil Separator (FRS) was used to identify ²⁰²Pt residues. Detectors: two multi-wire proportional counters for position measurements, two scintillation detectors for time-of-flight and position information, ionization chamber (MUSIC) for energy loss measurements and four "Clover" type Ge detectors (providing 16 independent Ge crystals). Measured: E γ , I γ , $\gamma\gamma$, $\gamma(t)$, and $\gamma\gamma(t)$.

2011St21: Projectile fragmentation of ²⁰⁸Pb beam at 1 GeV from the GSI UNILAC and SIS-18 accelerator complex on a 2.526 g/cm²-thick ⁹Be target, backed by a ⁹³Nb foil of thickness=0.223 g/cm². Fragment Recoil Separator (FRS) was used to identify ²⁰²Pt residues. Recoiling ions were slowed in Al degraders and stopped in a plastic catcher, surrounded by the RISING γ -ray spectrometer. Measured: E γ , I γ , γ (t) and $\gamma\gamma$ (t).

²⁰²Pt Levels

| E(level) [†] | Jπ‡ | T _{1/2} | Comments |
|-----------------------|-----------|------------------|--|
| 0.0 | 0^{+} | 44 h 15 | T _{1/2} : From Adopted Levels. |
| 534.3 5 | (2^{+}) | | -, |
| 1253.1 7 | (4^{+}) | | |
| 1787.4 9 | (7-) | 141 μs 7 | $T_{1/2}$: From $\gamma(t)$ in 2011St21. Other: 280 μ s +420–190 in 2005Ca02. |
| | | | configuration: $\pi(\mathbf{d}_{2,2}^{-1}, \mathbf{h}_{1,2}^{-1})$. |
| | | | Experimental isomeric state population ratio= $12\% + 1 - 2$ (2011St21). |

[†] From a least-square fit to $E\gamma$.

 \ddagger From 2005Ca02, based on the systematics in the even-even Pt isotopes.

 $\gamma(^{202}\text{Pt})$

| E_{γ}^{\dagger} | I_{γ}^{\dagger} | E _i (level) | \mathbf{J}_i^{π} | $\mathbf{E}_f \mathbf{J}_f^{\pi}$ | Comments |
|------------------------|------------------------|------------------------|----------------------|------------------------------------|--|
| 534.3 ^{#‡} 5 | 95 ^{#‡} 2 | 534.3 | (2+) | 0.0 0+ | E_{γ} : Other: 534.9 keV 2 in 2005Ca02. |
| 534.3 ^{#‡} 5 | 95 ^{#‡} 2 | 1787.4 | (7^{-}) | 1253.1 (4+) | E_{γ} : Other: 534.9 keV 2 in 2005Ca02. |
| 718.8 5 | 100 3 | 1253.1 | (4 ⁺) | 534.3 (2+) | E_{γ} : Other: 718.7 keV 2 in 2005Ca02. |

[†] From 2011St21.

^{\ddagger} Doublet with divided I γ from 2011St21.

[#] Multiply placed with intensity suitably divided.

⁹Be(²⁰⁸Pb,Xγ) 2011St21,2005Ca02

