

²⁰⁴Pb(d, α)[1977Fr11](#)

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

[1977Fr11](#): E(d)=80 MeV; enriched ²⁰⁴Pb: 1 mg/cm²; 500 μ m Si detector, 3000 μ m Si detector, and 1000 μ m Si detector formed Δ E-E-veto system. FWHM(α)=100 keV; measured E(α), $\sigma(\theta)$, deduced J^π .

²⁰²Tl Levels

E(level) [‡]	J ^{π} [†]	L [‡]	Comments
0	1 ⁻ ,2 ⁻	1	
490	4 ⁻ ,5 ⁻	5	
950	6 ⁺ ,7 ⁺ ,8 ⁺	6,(8)	
1580		8	
2150	12 ⁻	11	configuration: $\nu(i_{13/2}^{-1})\otimes\pi(h_{11/2}^{-1})$.
2340	9 ⁺	8	

[†] From the measured L values using $\sigma(\theta)$ and DWBA analysis ([1977Fr11](#)).

[‡] From [1977Fr11](#).