

²⁰⁴Pb(d,³He) [1970Ro24](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 105,1 (2005)	1-Mar-2005

E(d)=80 MeV; Target: enriched to 89.24% in ²⁰⁴Pb and 0.8 mg/cm² thick; Measured: $\sigma(E(d),\theta)$, FWHM (³He)=120-160 keV;
Deduced: E, L, J^π , S. DWBA analysis.

²⁰³Tl Levels

E(level) [†]	J^π [†]	L	S [‡]
0	1/2 ⁺	0	1.4
280	3/2 ⁺	2	1.84
690	5/2 ⁺	2	0.55
1240	3/2 ⁺ ,5/2 ⁺	2	0.70,0.74
1470	11/2 ⁻	5	8.2
1690	3/2 ⁺ ,5/2 ⁺	2	1.54,1.61
2100			
2300	3/2 ⁺ ,5/2 ⁺	2	1.4,1.5
3000	3/2 ⁺ ,5/2 ⁺	2	0.6,0.6

[†] From [1970Ro24](#).
[‡] S=N*(d σ /d Ω)(exp)/(d σ /d Ω)(DWBA) with N=1/2.95 ([1970Ro24](#)).