

²⁰⁸Pb(t,α),(pol t,α) 1970Ba07,1977F104

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Lalkovski		NDS 112, 707 (2011)	1-Aug-2010

1970Ba07,1977FL04: Facility: Los Alamos Van de Graaf Tandem; Beam: E(t)=20 MeV and 17 MeV; Target: 200 μg/cm² ²⁰⁸Pb;
 Detectors: magnetic spectrograph (FWHM=25 keV) and counter telescope (FWHM=43 keV); Measured: σ(θ); Deduced: levels.
 Others: 1965Hi08, 1966Hi05.

²⁰⁷Tl Levels

E(level) [†]	J ^π [‡]	L [#]	S [@]	Comments
0.0	1/2 ⁺	0	1.3	configuration: π(3s _{1/2}) ⁻¹ .
350 6	3/2 ⁺	2	4.4	configuration: π(2d _{3/2}) ⁻¹ .
1341 6	11/2 ⁻	5	7.3	configuration: π(1h _{11/2}) ⁻¹ .
1674 6	5/2 ⁺	2	3.1	configuration: π(2d _{5/2}) ⁻¹ .
3474 6	(7/2 ⁺)	(4)	6.4	configuration: π(1g _{7/2}) ⁻¹ .
3558 6				
3791 6				
3856 6				
3904 6				
3958 6				
3995 6				
4078 6				
4123 6				
4296 6				
4432 6				
4503 6				
4589 6				
4696 6				
4737 6				
4888 6				
4920 6				
4982 6				
5037 6				

[†] From 1970Ba07.

[‡] Based on deduced L-value.

[#] From σ(θ), DWBA (1970Ba07) and A_y (1977F104).

[@] From 1977F104. S=1/(Nσ_{DWBA}) × (dσ/dΩ), N=23; ΔS=20%.