

$^{204}\text{Pb}(t,p)$ 1974FI04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 201,346 (2025)	21-Jan-2025

1974FI04: (t,p) reaction with E(t)=20 MeV. p(θ) measured with magnetic spectrograph with FWHM=15-20 keV.
 Others: 1967Bj01, 1967FI09, 1972FI18 and 1984De17 [$^{204}\text{Pb}(t,p\gamma)$].

 ^{206}Pb Levels

E(level) ^{†‡}	J π [‡]	L [#]	Comments
0	0 ⁺	0	
802 4	2 ⁺	2	
1166 4	0 ⁺	0	
1682 4			
2643 4	3 ⁻	3	
2780 4			
3563 4	5 ⁻	5	
3768 4	5 ⁻	5	
4067 8	5 ⁻	5	
4119 8			E(level): Doublet in 1974FI04.
4236 8	5 ⁻	5	
4352 8	6 ⁺	6	
4634 8			
4739 8			
4805 20			
5134 10	(8 ⁺)	(8)	
5247 10	2 ⁺	2	
5286 10			
5326 10	(2 ⁺)	(2)	
5374 10			
5444 10	(3 ⁻)	(3)	
5475 10	6 ⁺	6	
5540 10	1 ⁻	1	
5601 10	(2 ⁺)	(2)	
5637 10	0 ⁺	0	
5688 10	(4 ⁺)	(4)	
5782 10	(1 ⁻)	(1)	
5894 10			
5944 15			
6045 15	3 ⁻	3	
6128 15	2 ⁺	2	
6176 15	2 ⁺	2	
6416 15	8 ⁺	8	
6472 15	(6 ⁺)	(6)	
6502 15			
6524 15	6 ⁺	6	
6568 15	6 ⁺	6	
6626 15	(8 ⁺)	(8)	
6688 15	8 ⁺	8	
6716 15	6 ⁺	6	
6946 15			
7758 15	(4 ⁺)	(4)	
7830 15			
7850 15	8 ⁺	8	
7874 15	8 ⁺	8	
7909 15			
7983 15			
8017 15			

Continued on next page (footnotes at end of table)

 $^{204}\text{Pb}(t,p)$ **1974FI04 (continued)** ^{206}Pb Levels (continued)E(level)^{†‡}8199 *15*8226 *15*

[†] From [1974FI04](#). Other levels, namely at 3128, 3805, 4002, 4034, 4165, 4287, 4409, and 4853 keV were reported by [1967FI09](#), but these may be from (p,t) reaction.

[‡] From [1974FI04](#).

[#] Quoted in [1974FI04](#) as J^π values, but converted by the evaluator to L values by assuming J=L. Assignment is based on a comparison between the measured $p(\theta)$ with distorted wave calculations.