

$^{207}\text{Pb}(\mu^-, 4n\gamma)$ [1983Bu02](#)

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

Target: ^{207}Pb , enriched to 92.77%; Detectors: Ge(Li); Measured: $E\gamma, I\gamma$.

 ^{203}Tl Levels

E(level) [†]	J^π [‡]	Comments
0	$1/2^+$	
279.19 4	$3/2^+$	
680.6 3	$5/2^+$	
1074.03 18	$7/2^+$	
1184.3 3	$7/2^+$	
1217.8	$9/2^+$	Additional information 1.
		E(level): From 1983Bu02 .
1322.0 8	$(3/2)^+$	
1449.64 10	$11/2^-$	

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

[‡] From Adopted Levels.

 $\gamma(^{203}\text{Tl})$

E_γ [†]	$E_i(\text{level})$	J^π_i	E_f	J^π_f	$I_{(\gamma+ce)}$ [†]
231.84 10	1449.64	$11/2^-$	1217.8	$9/2^+$	1.4 3
279.19 4	279.19	$3/2^+$	0	$1/2^+$	4.0 6
401.36 25	680.6	$5/2^+$	279.19	$3/2^+$	0.6 2
794.84 17	1074.03	$7/2^+$	279.19	$3/2^+$	1.8 4
905.1 3	1184.3	$7/2^+$	279.19	$3/2^+$	0.8 2
1042.8 8	1322.0	$(3/2)^+$	279.19	$3/2^+$	0.7 2

[†] From [1983Bu02](#). $I(\gamma+ce)$ is determined in [1983Bu02](#) from the measured $I\gamma$ per 100 muon captures and total electron conversion coefficients.

$^{207}\text{Pb}(\mu^{-},4n\gamma)$ 1983Bu02

Level Scheme

