

$^{206}\text{Pb}(\text{pol d}, ^3\text{He})$ 1988Ra01,1994Gr07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 166, 1 (2020)	20-Apr-2020

1988Ra01: E(d)=79.4 MeV; measured σ (θ), vector analyzing power; enriched target, magnetic spectrometer; DWBA analysis to deduce levels, J^π and spectroscopic strengths.

1994Gr07: E(d)=79.1 MeV; measured σ (θ), vector analyzing power; enriched target, magnetic spectrometer; DWBA analysis to deduce levels, J^π and spectroscopic strengths.

Other: 1985Gr16: E(d)=52 MeV; 1987RaZY.

 ^{205}Tl Levels

E(level) [†]	J^π [‡]	L [†]	C ² S [†]	E(level) [†]	J^π [‡]	L [†]	C ² S [†]	E(level) [†]	J^π [‡]	L [†]	C ² S [†]
0.0 [#]	1/2 ⁺	0	1.27	1644 ^{&}	(5/2 ⁺)	(2)	0.02	2740 ^{&}	5/2 ⁺	2	0.11
204 [@]	3/2 ⁺	2	1.96	1765 [@]	(3/2 ⁺)	(2)	0.05	2869 ^{&}	(5/2 ⁺)	(2)	0.07
618 ^{&}	5/2 ⁺	2	0.44	1848 ^{&}	5/2 ⁺	2	0.59	2942 ^{&}	(5/2 ⁺)	(2)	0.08
925 ^a	7/2 ⁺	4	0.08	1949 ^{&}	5/2 ⁺	2	0.83	2998 ^{&}	(5/2 ⁺)	(2)	0.06
1142 [@]	3/2 ⁺	2	0.83	2037 ^{&}	5/2 ⁺	2	0.97	3117 ^{&}	(5/2 ⁺)	(2)	0.17
1217 [#]	1/2 ⁺	0	0.20	2104 ^{&}	5/2 ⁺	2	0.26	3279 ^{&}	(5/2 ⁺)	(2)	0.05
1342 [@]	3/2 ⁺	2	0.43	2305 ^{&}	5/2 ⁺	2	0.03	3370 ^{&}	(5/2 ⁺)	(2)	0.05
1434 [#]	1/2 ⁺	0	0.08	2410 ^{&}	5/2 ⁺	2	0.10	3525 ^{&}	(5/2 ⁺)	(2)	0.03
1484 ^b	11/2 ⁻	5	7.35	2479 ^b	11/2 ⁻	5	1.22				
1580 ^{&}	(5/2 ⁺)	(2)	0.11	2583 ^b	11/2 ⁻	5	1.70				

[†] From 1994Gr07.

[‡] From L transfer values and vector analyzing power.

[#] Dominant configuration= $\pi(s_{1/2}^{-1})$.

[@] Dominant configuration= $\pi(d_{3/2}^{-1})$.

[&] Probably a mixture of configuration= $\pi(d_{5/2}^{-1})$ and configuration= $\pi(s_{1/2}^{-1})\otimes 2^+$.

^a Dominant configuration= $\pi(d_{3/2}^{-1})\otimes 2^+$.

^b Dominant configuration= $\pi(h_{11/2}^{-1})$.