

²⁰⁶Pb(e,e') 1987Sc19

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

1987Sc19: E(e)=25-48 MeV with FWHM=22-41 keV for E'. Report 25 levels, all above 5100 keV.
 Others: 1968Zi02: E(e)=20-73 MeV with FWHM≈200 keV for E'; 1981Pa04: E' measured at two angles for a variety of E(e);
 1984Pa02: E(e)=52-502 MeV. Report 2 levels including transition charge densities.

²⁰⁶Pb Levels

ΣB(M1)↑=14 +6-9 for E(x)=6.0-8.2 MeV (1987Sc19).

E(level) [†]	J ^π	Mult. [‡]	Comments
0	0 ⁺		
803 ^{&}		E2	B(E2)↑=0.0957
1684 ^{&}		E4	B(E4)↑=0.0167
2650 [#]		E3	B(E3)↑=0.64 4
4090 [#]		E2	B(E2)↑=0.23 2
4320 [#]		E4	B(E4)↑=0.22 2
4840 [@]		E10	
5040 [@]		E10	
5124 10		E2	B(E2)↑=0.0038 7
5261 5		E3	B(E3)↑=0.048 2
5288 20		E3,E2	
5309 10		E2	B(E2)↑=0.0048 8
5448 20		E2,E3	
5493 10		E2	B(E2)↑=0.0038 7
5564 20		a	
5580 20		a	E(level): Authors give the level energy as 5480, but this appears to be an error; evaluator assigned 5580 keV.
5615 20		E2,E1	
5682 20		b	
5692 20		b	
5715 20		c	
5732 20		c	
5760 20		E1,E2	
5800 5		M1	B(M1)↑=1.0 3
5846 20		d	
5857 20		d	
5903 20		E2,E1	
5969 20		M2,E2	
6103 10		E2	B(E2)↑=0.0185 7
6187 10		E2	B(E2)↑=0.0144 7
6318 20		E2,E3	
6347 10		E2	B(E2)↑=0.0046 6
6423 10		E2	B(E2)↑=0.0038 6
6541 10		M2	B(M2)↑=2.92 27

[†] From 1987Sc19, unless otherwise stated. Uncertainties have been assigned by the evaluators on the basis of the authors' statement that they are "typically between 5 and 10 keV for the stronger transitions and up to 20 keV for the weaker ones".

[‡] Authors' assignments from comparison of experimental σ and form factors and DWBA calculations.

[#] From 1968Zi02.

 $^{206}\text{Pb}(\epsilon, \epsilon')$ **1987Sc19** (continued) ^{206}Pb Levels (continued)

@ From [1981Pa04](#).

& Nominal value, level reported by [1984Pa02](#).

^a E1,E2 for 5564 + 5580 levels ([1987Sc19](#)).

^b E1,E2 for 5683 + 5692 levels ([1987Sc19](#)).

^c E1,E2 for 5715 + 5732 levels ([1987Sc19](#)).

^d E1,E2 for 5846 + 5857 levels ([1987Sc19](#)).