

$^{207}\text{Pb}(\mu^{-},n\gamma), ^{206}\text{Pb}(\mu^{-},\gamma)$ [1980Bu17,1982Ho14](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 109, 1527 (2008)	31-Jan-2008

Data given here are primarily from the $^{207}\text{Pb}(\mu^{-},n\gamma)^{206}\text{Pb}(\mu^{-})$ study ([1980Bu17](#)). Other nuclear data for $^{206}\text{Pb}(\mu^{-})$ reaction are given by [1980Ho14](#). Atomic data for muonic ^{206}Pb atoms (*i.e.*, muonic atom x-ray energies and intensities) and the deduced isotopic shifts of the charge radii are given by [1966Ac02](#), [1966Eh01](#), [1969An02](#), [1969An26](#), [1969Fo11](#), [1973Ma45](#), [1973Fo05](#), [1974Fo09](#), [1975Ke05](#), and [1984Ho15](#).

[Additional information 1.](#)

 ^{206}Pb Levels

E(level) [†]	J ^π [‡]
0.	0 ⁺
801.548 22	2 ⁺
1338.04 14	3 ⁺
1464.8 11	2 ⁺
1682.5 4	4 ⁺
1704.0 6	1 ⁺
2653.9 12	3 ⁻

[†] From γ energies; these values are shifted from those of a normal atom.

[‡] From ^{206}Pb Adopted Levels.

 $\gamma(^{206}\text{Pb})$

E_{γ} [†]	$E_i(\text{level})$	J_i^{π}	E_f	J_f^{π}	Comments
536.49 13	1338.04	3 ⁺	801.548	2 ⁺	E_{γ} : 1982Ho14 report 801.65 31 keV.
801.546 22	801.548	2 ⁺	0.	0 ⁺	
881.0 4	1682.5	4 ⁺	801.548	2 ⁺	
1464.8 11	1464.8	2 ⁺	0.	0 ⁺	
1704.0 6	1704.0	1 ⁺	0.	0 ⁺	E_{γ} : 1982Ho14 report 1852.8 4 keV.
1852.3 12	2653.9	3 ⁻	801.548	2 ⁺	

[†] From [1980Bu17](#); these values are shifted from those of a normal atom. Other: [1982Ho14](#).

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Level Scheme

