Coulomb excitation 1978Jo04,1972Ha59,1971Gr31

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

1971Gr31,1972Ha59,1978Jo04: Coulomb excitation with beams of 14 to 18-MeV α's (1971Gr31,1972Ha59,1978Jo04), 44 to 60-MeV ^{12}C (1978Jo04), 59 to 85-MeV ^{16}O (1971Gr31,1972Ha59,1978Jo04) Others: 1955St57, 1960BaZZ, 1962Na06, 1965An13, 1966Hr01, 1970Ol02, 1970Qu02, 1991Ho13, 1998He02 and 1998Wo15.

^{206}Pb Levels

E(level)†	J$^\pi$†	$T_{1/2}$	Comments
0	0^+		
803	2^+	9.1 ps *6*	$T_{1/2}$: From 1970Qu02 using the recoil-distance Doppler shift technique. B(E2)↑: 0.103 *1* (1978Jo04), 0.12 *3* (1955St57), 0.115 (1960BaZZ), 0.13 *5* (1962Na06), 0.108 *10* (1966Hr01), 0.103 *8* (1971Gr31), 0.095 *5* (1972Ha59) and 0.100 (1991Ho13). Also 1965An13 gives ratio of B(E2) values for the first 2^+ states in ^{204}Pb and ^{206}Pb. Q: +0.05 *9* from 1978Jo04. g-factor=0.07 *+7−3* from 1974Ol02. Re-analysis of the data of 1974Ol02 gives g-factor<0.015 at 98% confidence level (1986Bi13).
2648	3^-	0.087 ps *21*	$T_{1/2}$: From 1972Ha59. Other: 0.28 ps *14* (1971Gr31). Both values deduced using Doppler shift attenuation technique. B(E3)↑: 0.66 *7* (1971Gr31), 0.50 *3* (1972Ha59), 0.60 *4* or 0.65 *4* (1978Sp08), 0.83 *+18−25* (1966Hr01), 0.61 (1991Ho13), and 0.35 *2* (1998Wo15).
4102‡	2^+		B(E2)=0.29.
4413‡			E(level): From 1991Ho13.

† Nominal values from Adopted Levels, unless otherwise stated.
‡ Observed only in 1991Ho13.

$\gamma(^{206}Pb)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
1844 *1*	2648	3^-	803	2^+	E_γ: From 1998He02.

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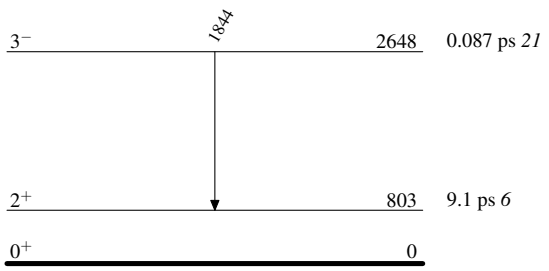
Level Scheme



$^{206}_{82}Pb_{124}$