Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 106,619 (2005)	1-Nov-2005

Q(β^-)=−9.31×10^3 *syst*; S(n)=8561 *21*; S(p)=1.96×10^3 *3*; Q(α)=6695 *5* 2012Wa38
Note: Current evaluation has used the following Q record −9300 syst 8567 22 *1950* 50 *6695* 5 2003Au03.
ΔQ(β-)=60 (2003Au03).

^{185}Pb Levels

Cross Reference (XREF) Flags

A ^{189}Po α decay (3.5 ms)

E(level)	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	3/2$^-$	6.3 s *4*	A	%α=34 *25*; %ε+%β^+=? μ=−1.10 *4* %α=34 *25* from the recoil-α(^{189}Po)-α(^{185}Pb) correlations (2005Va04). J$^\pi$: 13/2$^+$ and 3/2$^-$ for the low-lying two states from laser spectroscopy; this state is populated by the α-decay of ^{189}Po, J^π=(7/2$^-$). T$_{1/2}$: From 2002An15. Others: 4.1 s *3* from 1980Sc09. Only α decay was observed. Q(α)=6698 *4* from 2002An15. Eα_0=6548, Iα_2<1.4%, HF>600; Eα_1=6486 *5*, Iα_2=44% *2*, HF=11 *6*; Eα_2=6288 *5*, Iα_1=56% *2*, HF=1.5 *8*; from 2002An15 and Eα_1=6290 *15*, Iα_1=12% *2*; Eα_2=6485 *15*, Iα_2=18% *3* (1980Sc09). μ: from Laser Resonance Spectroscopy (2002An15).
0.0+x	13/2$^+$	4.3 s *2*		%α=50 *25*; %ε+%β^+=? μ=−1.19 *3* %α=50 *25* estimated from the known α-branching ratios of the neighboring Pb isotopes (2002An15). Only α decay was observed. Eα=6408 *5*, HF=1.7 *9* from 2002An15; Eα=6406 *15*, HF=3.6 *3*, assuming Iα=52% from 1980Sc09. %ε+%β^+≈40 theory (1973Ta30). J$^\pi$: see comments on the 0.0 level. T$_{1/2}$: from 2002An15. Other: 3.6 s *3* (1980Sc09). μ: from Laser Resonance Spectroscopy (2002An15).
224 *1*			A	
278 *1*	(5/2$^-$)		A	J$^\pi$: assigned under the assumption that the 278 γ is of M1.

γ(^{185}Pb)

E$_i$(level)	J$_i^\pi$	E$_\gamma$	E$_f$	J$_f^\pi$
224		224 *1*	0.0	3/2$^-$
278	(5/2$^-$)	278 *1*	0.0	3/2$^-$

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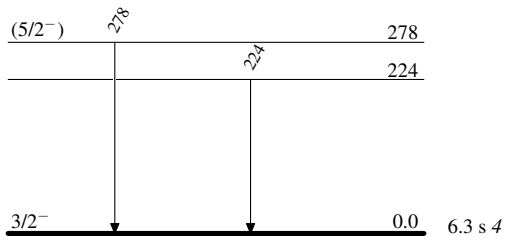
Level Scheme



$^{185}_{82}Pb_{103}$