Adopted Levels, Gammas

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

$Q(\beta^-)=-9.31\times10^3$ *SY*; S(n)=8561 *21*; S(p)=1.96×10^3 *3*; $Q(\alpha)$=6695 *5*   2012Wa38
Note: Current evaluation has used the following Q record.
$\Delta Q(\beta\text{-})$=60 (2003Au03).
$Q(\beta^-)$=−9300 *SY*; S(n)=8567 *22*; S(p)=1950 *50*; $Q(\alpha)$=6695 *5*   2003Au03

^{185}Pb Levels

Cross Reference (XREF) Flags

A ^{189}Po α decay (3.5 ms)

E(level)	J^π	$T_{1/2}$	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^π: 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. $Q(\alpha)$=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^π: 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^π: assigned under the assumption that the 278 γ is of M1.

$\gamma(^{185}$Pb)

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

Adopted Levels, Gammas

Level Scheme

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