Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 108,1057 (2007)	1-Mar-2007

Q(β^-)=4090 12; S(n)=3846 19; S(p)=5.83×10^3 $syst$; Q(α)=5.00×10^3 $syst$ 2012Wa38
Note: Current evaluation has used the following Q record $ 4090   11 3846 19 5890 syst 5100 syst   2003Au03.
ΔS(p)=410, ΔQ(α)=300 from 2003Au03.

^{216}Bi Levels

E(level)	J$^\pi$	T$_{1/2}$	Comments
0.0	(6$^-$,7$^-$)	2.25 min 5	%β^-≤100
			J$^\pi$: from 2000Ku06. Calculation of $\pi 1h_{9/2} \otimes \nu 2g_{9/2}$ for even Bi isotopes lead to high-spin ground state of ^{216}Bi (J^π=6$^-$ or 7$^-$). According to 2000Ku06, this state decays mostly to the (8$^+$) state of ^{216}Po.
			T$_{1/2}$: from 2000Ku06. Other: 3.6 min 4 (1990Ru02).
			%β^-: β^- decay observed, α decay has not been observed.
x	(3)	6.6 min 21	%β^-≤100
			E(level): 24 19 (2012Au07) from mass measurement.
			T$_{1/2}$: from 1989Bu09. Others: 3.6 min 4 (1990Ru02).
			%β^-: β^- decay observed, α decay has not been observed.
			J$^\pi$: daughter of ^{220}At α decay. J^π(^{220}At g.s.)=3 from β^- decay of ^{220}Rn to ^{220}At. The α group from ^{220}At has an HF≈4; therefore, one expects it to feed a level with like configuration, $i.e.$ with J=3.