^{216}Bi β^- decay (2.25 min+6.6 min) 1990Ru02

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

Parent: ^{216}Bi: E=0.0; J^π=(6$^-$,7$^-$); $T_{1/2}$=2.25 min *8*; Q(β^-)=4090 *11*; %β^- decay≤100.0
Parent: ^{216}Bi: E=0.0+x; J^π=(3$^-$); $T_{1/2}$=6.6 min *21*; Q(β^-)=4090 *11*; %β^- decay≤100.0
1990Ru02: ^{216}Bi from Th(p,X), E=200 MeV; measured Eγ, Iγ, $\gamma\gamma$-coin, X-ray spectra, β-gating.

^{216}Po Levels

E(level)†	J^π
0.0	0$^+$
549.80 *6*	2$^+$
969.01 *10*	

† From Eγ.

γ(^{216}Po)

E$_\gamma$	I$_\gamma$	E$_i$(level)	J_i^π	E$_f$	J_f^π	Mult.†	α‡	Comments
419.21 *8*	44 *10*	969.01		549.80	2$^+$	[E2]	0.0498	
549.80 *6*	100 *9*	549.80	2$^+$	0.0	0$^+$	(E2)	0.0257	α(K)=0.0183 *3*; α(L)=0.00561 *8*; α(M)=0.001399 *20*; α(N+..)=0.000440 *7* α(N)=0.000359 *5*; α(O)=7.21×10^{-5} *10*; α(P)=8.05×10^{-6} *12*

† From adopted gammas.
‡ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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Decay Scheme

Intensities: Relative I_γ