

^{215}At α decay 1982Bo04,1966Gr07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan, C. M. Baglin, O. Gorbachenko, N. Todorovic		NDS 114, 661 (2013)	28-Feb-2013

Parent: ^{215}At : E=0.0; $J^\pi=9/2^-$; $T_{1/2}=0.10$ ms 2; $Q(\alpha)=8178$ 4; % α decay=100.0

Other: 1951Me10.

All data are from 1966Gr07, unless otherwise noted.

 ^{211}Bi Levels

E(level)	J^π [†]	Comments
0.0	$9/2^-$	
408	$7/2^-$	E(level): from $\Delta Q(\alpha)$.

[†] From Adopted Levels. α radiations

E α	E(level)	I α [‡]	HF [†]	Comments
7610 10	408	0.05 2	4.4×10^2 20	I α : from $\alpha\gamma$.
8026 4	0.0	99.95 2	3.3 7	E α : from 1982Bo04, value recommended by 1991Ry01. I α : value recommended by 1991Ry01.

[†] Using $r_0(^{211}\text{Bi})=1.5522$ 7; interpolated value deduced from $r_0(^{210}\text{Pb})=1.5394$ 6, $r_0(^{212}\text{Po})=1.5649$ 8 (1998Ak04).[‡] Absolute intensity per 100 decays. $\gamma(^{211}\text{Bi})$

E γ	E i (level)	J_i^π	E f	J_f^π	Mult. [†]	δ [†]	α [‡]	Comments
≈404	408	$7/2^-$	0.0	$9/2^-$	M1+E2	-1.1 I	≈0.122	$\alpha(K) \approx 0.095$; $\alpha(L) \approx 0.0208$; $\alpha(M) \approx 0.00502$; $\alpha(N+..) \approx 0.00157$ $\alpha(N) \approx 0.00128$; $\alpha(O) \approx 0.000256$; $\alpha(P) \approx 2.81 \times 10^{-5}$ E γ : from $\alpha\gamma$.

[†] 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.

^{215}At α decay 1982Bo04,1966Gr07Decay Scheme