^{214}At α decay (558 ns) 1982Ew01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 121, 561 (2014)	31-Mar-2014

Parent: ^{214}At: E=0.0; $J^{\pi}=1^-$; $T_{1/2}$=558 ns *10*; Q(α)=8987 *4*; %α decay=100.0
1982Ew01: ^{214}At was produced from ^{218}Fr α decay. Measured Eα and Iα.

^{210}Bi Levels

E(level)	J^{π}[†]	$T_{1/2}$[†]
0.0	1^-	5.012 d *5*
319.8 *4*	2^-	
347.8 *4*	3^-	
563.1 *6*	1^-	

[†] From Adopted Levels.

α radiations

Eα[†]	E(level)	Iα[‡@]	HF[#]	Comments
8270 *5*	563.1	0.32 *3*	21.6	
8480 *6*	347.8	0.58 *4*	43	
8507 *7*	319.8	0.15 *4*	195	
8819 *4*	0.0	98.95 *6*	1.78	Eα,Iα: recommended by 1991Ry01. Other value: 8812 (1999Sh03).

[†] From 1982Ew01. Eα's were calibrated to 8819α, measured by 1982Bo04. Other measurements: 1951Me10, 1958To25, 1964Mc21, 1968Ha14, 1999Sh03.
[‡] From 1982Ew01.
[#] Using $r_0(^{210}Bi)$=1.5443, average of $r_0(^{208}Pb)$=1.5394 *6*, $r_0(^{210}Pb)$=1.5408 *9*, $r_0(^{210}Po)$=1.532 *6*, and $r_0(^{212}Po)$=1.5649 *8* (1998Ak04).
[@] Absolute intensity per 100 decays.