^{205}At α decay

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

Parent: ^{205}At: E=0.0; $J^{\pi}=9/2^{-}$; $T_{1/2}=26.9$ min *8*; Q(α)=6019.6 *17*; %α decay=10 *2*
^{205}At-J^{π}, $T_{1/2}$ and %α decay from 2020Ko17; Q(α) from 2021Wa16.

^{201}Bi Levels

E(level)	J^{π}[†]	$T_{1/2}$[†]
0	$9/2^{-}$	103 min *3*

[†] From Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
5902.1 *7*	0	100	1.5 *4*	Eα: From 1991Ry01, based on Eα=5901 keV *5* (1974Ho27), 5910 keV *10* (1970DaZM), 5903 keV *2* (1968Go12) and 5896 keV *4* (1963Ho18); Other: 5900 keV *40* (1954Bu67).

[†] Using $r_0(^{201}Bi)=1.477$ *15*, unweighted average of $r_0(^{202}Po)=1.4917$ *27* and $r_0(^{200}Pb)=1.4625$ *22* (2020Si16).
[‡] For absolute intensity per 100 decays, multiply by 0.10 *2*.