Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. Chen [#] and F. G. Kondev	NDS 126, 373 (2015)	30-Sep-2013

$Q(\beta^-)=-7.69\times10^3$ *10*; $S(n)=9990$ *80*; $S(p)=160$ *50*; $Q(\alpha)=7730$ *50*   2012Wa38

^{209}Ac Levels

Cross Reference (XREF) Flags

A ^{213}Pa α decay

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	$(9/2^-)$	0.087 s $+12-9$	A	$\%\alpha\approx100$
				J^π: assumed a favored α decay to the ^{205}Fr g.s. ($J^\pi=(9/2^-)$). No $E(\alpha1)^-$ $E(\alpha2)$ correlations are known. $J^\pi=7/2^-$ is predicted in 1997Mo25.
				$T_{1/2}$: weighted average of 0.10 s *5* using 7585α(t) in 1968Va04, 0.091 $+21-14$ using 7581α(t) in 1994Le05, 0.082 $+18-13$ using 7580α(t) in 1996Ik01, and 0.098 s $+59-27$ using 7577α(t) in 2000He17.
				$E(\alpha)=7585$ keV *15* (1968Va04), 7581 keV *15* (1994Le05), 7580 keV *50* (1996Ik01), and 7577 keV *10* (2000He17).