

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola, P. Demetriou, M. Hassanvand, M. Hussain		NDS 114, 661 (2013)	28-Feb-2013

$Q(\beta^-) = -6700$ 90; $S(n) = 9660$ 80; $S(p) = 550$ 60; $Q(\alpha) = 7620$ 50 [2012Wa38](#)
 $S(2n) = 17780$ 70, $S(2p) = 3610$ 50, $Q(\epsilon p) = 3250$ 60 ([2012Wa38](#)).

^{211}Ac evaluated by D. Abriola, P. Demetriou, M. Hassanvand, M. Hussain.

 ^{211}Ac LevelsCross Reference (XREF) Flags

[A](#) ^{215}Pa α decay

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	$9/2^-$	0.21 s 3	A	$\% \alpha \approx 100$; $\% \epsilon + \% \beta^+ < 0.2$ $T_{1/2}$: weighted average of 0.25 s 5 (1968Va04) and 0.200 s 29 (2000He17). $\% \alpha$: $I\epsilon + I\beta^+ < 0.2$ is based on the assumption that $\log ft > 5.9$ for ϵ decay to the ^{211}Ra ground state and therefore is forbidden. Given that ^{211}Ac g.s. $J^\pi = 9/2^-$ and ^{211}Ra g.s. $J^\pi = 5/2^-$ then $(\epsilon + \beta^+)$ decay is a 2nd non-unique forbidden transition with $\log ft > 11$ (1998Si17). J^π : α decay to ^{207}Fr g.s. $J^\pi = 9/2^-$ with $HF = 0.94$ (using $r_0(207\text{Fr}) = 1.491$ 3 (2011Ko04)).