

^{239}Pa β^- decay [1995Yu01,1996Yu06](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 122, 293 (2014)		30-Jun-2013

Parent: ^{239}Pa : $E=0.0$; $J^\pi=(3/2)$; $T_{1/2}=1.8$ h 5; $Q(\beta^-)=2760$ SY; $\%\beta^-$ decay=100.0

Measured E_γ and $\gamma\gamma$ coin. Detectors: High-purity Ge. γ rays assigned to ^{239}Pa β^- decay had been previously seen in $^{238}\text{U}(n,\gamma)$ ([1992Sc18](#)).

[Additional information 1.](#)

 ^{239}U Levels

<u>E(level)[†]</u>	<u>J^π[‡]</u>	<u>$T_{1/2}$[‡]</u>
0.0	$5/2^+$	23.45 min 2
133.799 [‡] 1	$1/2^+$	
145.777 [‡] 9	$3/2^+$	
193.987 [‡] 6	$5/2^+$	
222.25 [‡] 4	$(7/2^+)$	
716.0 5	$3/2^+$	
784.3 5	$5/2^-$	
814.8 5	$1/2^-$	

[†] From γ -ray energies.

[‡] From Adopted Levels.

 $\gamma(^{239}\text{U})$

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
522.0 5	716.0	$3/2^+$	193.987	$5/2^+$
562.0 5	784.3	$5/2^-$	222.25	$(7/2^+)$
638.5 5	784.3	$5/2^-$	145.777	$3/2^+$
681.0 5	814.8	$1/2^-$	133.799	$1/2^+$

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Decay Scheme

