

$^{241}\text{Pu}(n,\gamma)$ E=th:secondary γ 's 1972MaYS

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin, C. D. Nesaraja		NDS 186, 261 (2022)	31-Dec-2021

 ^{242}Pu Levels

E(level) [‡]	J π [†]	Comments
0.0	0 ⁺	
44.545 [#] 9	2 ⁺	Additional information 1.
147.4 [#] 1	4 ⁺	Additional information 2.
306.4 [#] 2	6 ⁺	Additional information 3.
780.3	1 ⁻	
832.1	3 ⁻	
1019.4	3 ⁻	
1063.1	(4 ⁻)	
1150.1	(2 ⁻)	
1825.0	(4 ⁺)	
2091.8?		

[†] From Adopted Levels.

[‡] From a least-squares fit to the E γ data with the assumption that the same uncertainty can be assigned to each of the input E γ values. No uncertainties are given by the authors.

[#] From Adopted Levels.

 $\gamma(^{242}\text{Pu})$

E γ [†]	E $_i$ (level)	J $_i$ π	E $_f$	J $_f$ π
684.6	832.1	3 ⁻	147.4	4 ⁺
735.8	780.3	1 ⁻	44.545	2 ⁺
780.3	780.3	1 ⁻	0.0	0 ⁺
787.8	832.1	3 ⁻	44.545	2 ⁺
915.7	1063.1	(4 ⁻)	147.4	4 ⁺
941.1 [‡]	2091.8?		1150.1	(2 ⁻)
974.9	1019.4	3 ⁻	44.545	2 ⁺
1105.6	1150.1	(2 ⁻)	44.545	2 ⁺
1518.6	1825.0	(4 ⁺)	306.4	6 ⁺

[†] Energies are taken from the authors' decay scheme. No uncertainties are given by the authors.

[‡] Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

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