

$^{238}\text{U}(\alpha,3n\gamma)$ 1983Ha44

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

$E(\alpha) = 35$ MeV; ce mag spect, γ Ge(Li), ce γ coin.

Moment of inertia parameters for the g.s. 1/2[631] band deduced.

 ^{239}Pu Levels

E(level)	J^π	E(level)	J^π	E(level)	J^π	E(level)	J^π
0.0	1/2 ⁺	163.76	9/2 ⁺	519.27	17/2 ⁺	1053.2	25/2 ⁺
7.861	3/2 ⁺	192.81	11/2 ⁺	570.31	19/2 ⁺	1126.9	27/2 ⁺
57.276	5/2 ⁺	318.21	13/2 ⁺	764.8	21/2 ⁺	1382.8	29/2 ⁺
75.706	7/2 ⁺	358.22	15/2 ⁺	827.2	23/2 ⁺	1466.9	31/2 ⁺

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

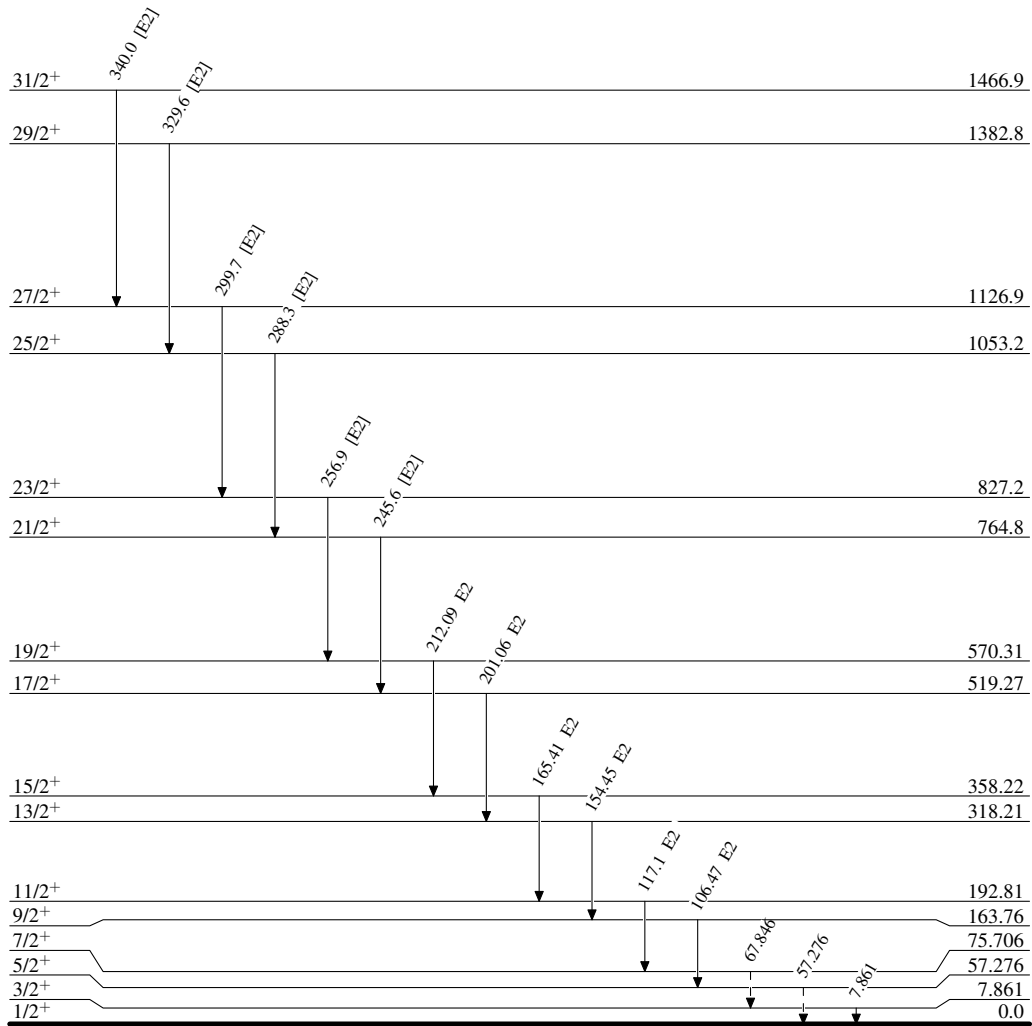
E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [†]	Comments
(7.861 2)	7.861	3/2 ⁺	0.0	1/2 ⁺		
(57.276 2)	57.276	5/2 ⁺	0.0	1/2 ⁺		
(67.846 2)	75.706	7/2 ⁺	7.861	3/2 ⁺		
106.47 4	163.76	9/2 ⁺	57.276	5/2 ⁺	E2	E_γ : from Adopted Gammas.
117.1 1	192.81	11/2 ⁺	75.706	7/2 ⁺	E2	
154.45 8	318.21	13/2 ⁺	163.76	9/2 ⁺	E2	
165.41 8	358.22	15/2 ⁺	192.81	11/2 ⁺	E2	
201.06 8	519.27	17/2 ⁺	318.21	13/2 ⁺	E2	
212.09 8	570.31	19/2 ⁺	358.22	15/2 ⁺	E2	
245.6 1	764.8	21/2 ⁺	519.27	17/2 ⁺	[E2]	
256.9 1	827.2	23/2 ⁺	570.31	19/2 ⁺	[E2]	
288.3 2	1053.2	25/2 ⁺	764.8	21/2 ⁺	[E2]	
299.7 2	1126.9	27/2 ⁺	827.2	23/2 ⁺	[E2]	
329.6 4	1382.8	29/2 ⁺	1053.2	25/2 ⁺	[E2]	
340.0 4	1466.9	31/2 ⁺	1126.9	27/2 ⁺	[E2]	

[†] From L conversion electron subshell ratios.

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Legend

Level Scheme

-----> γ Decay (Uncertain) $^{239}_{94}\text{Pu}_{145}$