^{239}Pu(n,γ) E=0.3-58 eV 1985Ch08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, E. Browne	NDS 109, 2439 (2008)	31-Jul-2008

1985Ch08: measured Eγ, Iγ. Deduced partial radiative widths for seven primary γ rays At 10 neutron energies from 0.3 to 58 eV. Low-energy (500-1200 keV) γ's from resonance n capture reported by 1970ChZO.

^{240}Pu Levels

E(level)	J^π
0	0^+
42.8	
597.4	
860.7	
938.1	
958.9	
1240.4	
1437.8	
(6534.20† *23*)	

† S(n) (2003Au03).

γ(^{240}Pu)

E$_\gamma$	E$_i$(level)	E$_f$	Comments
5095.4	(6534.20)	1437.8	E$_\gamma$: transition observed at 11.9-, 14.68-, 41.7- and 52.7-eV resonances.
5292.3	(6534.20)	1240.4	E$_\gamma$: transition observed at 14.68- and 41.7-eV resonances.
5575.2	(6534.20)	958.9	E$_\gamma$: transition observed at 0.3-, 7.85-, 10.95-, 14.68-, 22.2-, 52.7- and 58-eV resonances.
5597.3	(6534.20)	938.1	E$_\gamma$: transition observed at 7.85-, 11.9-, 14.68-, 17.7-, 22.2 and 41.7-eV resonances.
5674.6	(6534.20)	860.7	E$_\gamma$: transition observed at 0.3- and 41.7-eV resonances.
5936.3	(6534.20)	597.4	E$_\gamma$: transition observed at 0.3-, 7.85-, 11.9-, 14.68, 41.7-, 52.7 and 58-eV resonances.
6491.2 *15*	(6534.20)	42.8	E$_\gamma$: transition observed at 0.3- and 41.7-eV resonances.

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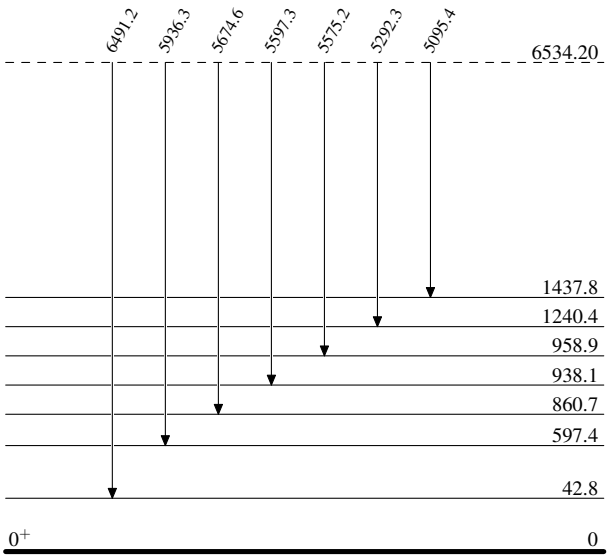
Level Scheme



$^{240}_{94}Pu_{146}$