

^{240}Pu $Z = 94$ $N = 146$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1813.450 (0.001) MeV

	Energy T	J+		J-	J-other	T1/2

S-alpha=	-5.256	(0.002)	-----			

240PU 1	0.000	0+				1 6561 Y 7
240PU 2	0.043	2+				2 167 PS 6
240PU 3	0.142	4+				3
240PU 4	0.294	6+				4
240PU 5	0.497	8+				5
240PU 6				0.597	1-	6
240PU 7				0.649	3-	7
240PU 8				0.742	5-	8 2 NS LT
240PU 9	0.747	10+				9
240PU 10	0.861	0+				10

240PU 11				0.878	(7-)	11
240PU 12	0.900	2+				12
240PU 13				0.938	(1-)	13
240PU 14				0.959	(2-)	14
240PU 15	0.992	4+				15
240PU 16				1.002	(3-)	16
240PU 17	1.031	(3)+				17 1.32 NS 15
240PU 18				1.038	(4-)	18
240PU 19	1.041	12+				19
240PU 20				1.057	(9-)	20

240PU 21	1.076	(4+)				21
240PU 22	1.089	0+				22
240PU 23				1.116	(5-)	23
240PU 24	1.131	(2+)				24
240PU 25	1.137	(2+)				25
240PU 26	1.138	(6+)				26
240PU 27				1.162	(6-)	27
240PU 28	1.178	(3+)				28
240PU 29	1.181	(2+)				29
240PU 30					1.199	30

240PU 31	1.223	(2+)				31
240PU 32	1.232	(4+)				32
240PU 33				1.241	(2-)	33
240PU 34	1.262	(3+)				34
240PU 35				1.278	(11-)	35
240PU 36				1.282	(3-)	36

240PU	37			1.309	(5-)		37	165 NS	10
240PU	38					1.321 (1,2+)	38		
240PU	39	1.323	(8+)				39		
240PU	40					1.337 (2+,3,4+)	40		

240PU	41	1.375	14+				41		
240PU	42					1.379	42		
240PU	43					1.407	43		
240PU	44			1.411	0(-)		44		
240PU	45	1.413	(+)				45		
240PU	46			1.438	2(-)		46		
240PU	47					1.488 (1,2+)	47		
240PU	48	1.526	(0+)				48		
240PU	49			1.540	(1-)		49		
240PU	50			1.540	(13-)		50		

240PU	51	1.557	(10+)				51		
240PU	52	1.559	(2+)				52		
240PU	53					1.574	53		
240PU	54					1.580	54		
240PU	55			1.608	(1-)		55		
240PU	56					1.627 (1,2+)	56		
240PU	57					1.633 (1,2+)	57		
240PU	58					1.641	58		
240PU	59					1.675	59		
240PU	60	1.710	(2+)				60		

240PU	61	1.746	16+				61		
240PU	62					1.752	62		
240PU	63			1.775	(1-)		63		
240PU	64					1.784	64		
240PU	65					1.796 (1,2+)	65		
240PU	66					1.808 (1-,2+)	66		
240PU	67	1.830	(12+)				67		
240PU	68			1.842	(15-)		68		
240PU	69					1.861	69		
240PU	70					1.881 (0,1,2)	70		

240PU	71					1.902	71		
240PU	72			1.918	(1-)		72		
240PU	73	1.955	(2+)				73		
240PU	74					1.996 (1,2+)	74		
240PU	75					2.118 (1,2+)	75		
240PU	76			2.127	(-)		76		
240PU	77	2.137	(14+)				77		
240PU	78	2.152	18+				78		
240PU	79			2.183	(17-)		79		
240PU	80	2.475	(16+)				80		

240PU	81			2.560	(19-)		81		

240PU 82		2.590	20+				82
240PU 83		2.837	(18+)				83
240PU 84					2.974	(21-)	84
240PU 85		3.060	22+				85
240PU 86		3.218	(20+)				86
240PU 87					3.421	(23-)	87
240PU 88		3.559	24+				88
240PU 89		3.627	(22+)				89
240PU 90					3.901	(25-)	90

240PU 91		4.063	(24+)				91
240PU 92		4.086	26+				92
240PU 93					4.411	(27-)	93
240PU 94		4.531	(26+)				94
240PU 95		4.639	28+				95
240PU 96					4.950	(29-)	96
240PU 97		5.030	(28+)				97
240PU 98		5.220	30+				98
240PU 99					5.512	(31-)	99
240PU 100		5.559	(30+)				100

240PU 101		5.819	32+				101
240PU 102					6.096	(33-)	102

S-p = 6.475 (0.002) -----
S-n = 6.534 (0.002) -----
S-2p = 11.760 (0.002) -----
S-2n = 12.180 (0.002) -----
S-alpha= -5.256 (0.002) -----

S+p = -4.480 (0.002)
S+n = -5.242 (0.002)
S+2p = -9.900 (0.002)
S+2n = -11.551 (0.002)
S+alpha = 5.901 (0.002)

gap p = 1.995 (0.002)
gap n = 1.292 (0.002)
gap 2p = 1.861 (0.002)
gap 2n = 0.629 (0.002)
gap alpha = 0.646 (0.002)