

^{243}Pu $Z = 94$ $N = 149$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1830.035 (0.003) MeV

Qbeta- = 0.580 (0.003) MeV

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

S-alpha=	-4.757	(0.003)	-----		
243PU 1	0.000	7/2+			1 4.956 H 3
243PU 2	0.058	9/2+			2
243PU 3	0.125	11/2+			3
243PU 4	0.207	13/2+			4
243PU 5	0.287	5/2+			5
243PU 6	0.299	15/2+			6
243PU 7	0.333	7/2+			7
243PU 8				0.384 (1/2+)	8 0.33 US 3
243PU 9				0.388 (9/2+)	9
243PU 10				0.392 (3/2+)	10

243PU 11			0.403 9/2-		11
243PU 12	0.404	17/2+			12
243PU 13				0.447 (5/2+)	13
243PU 14				0.450 (7/2+)	14
243PU 15			0.455 11/2-		15
243PU 16				0.467 (11/2+)	16
243PU 17	0.519	19/2+			17
243PU 18				0.537 (13/2+)	18
243PU 19				0.564 (9/2+)	19
243PU 20				0.595 (15/2-)	20

243PU 21				0.626 (1/2+)	21
243PU 22				0.626 (9/2+)	22
243PU 23	0.647	21/2+			23
243PU 24				0.654 (3/2+)	24
243PU 25				0.677 (5/2+)	25
243PU 26				0.704 (3/2-)	26
243PU 27				0.734	27
243PU 28				0.742 (7/2+)	28
243PU 29	0.784	23/2+			29
243PU 30				0.791 (3/2-)	30

243PU 31				0.809 1/2+,3/2	31
243PU 32	0.814	3/2+			32
243PU 33				0.834 (7/2-)	33
243PU 34				0.845 (5/2+)	34
243PU 35				0.874 (1/2-)	35
243PU 36				0.884	36

243PU	37				0.896	(7/2+)	37
243PU	38				0.906	(1/2-)	38
243PU	39				0.921	(11/2-)	39
243PU	40	0.933	25/2+				40

243PU	41				0.948	(3/2-)	41
243PU	42				0.954	(9/2+)	42
243PU	43				0.981	(5/2+)	43
243PU	44				1.044	(11/2+)	44
243PU	45				1.080	(9/2+)	45
243PU	46	1.091	27/2+				46
243PU	47				1.114		47
243PU	48				1.130	(1/2+, 3/2)	48
243PU	49				1.145		49
243PU	50				1.176	3/2+, 5/2+	50

243PU	51				1.197		51
243PU	52				1.213	(5/2-)	52
243PU	53				1.233		53
243PU	54				1.243		54
243PU	55	1.261	29/2+				55
243PU	56				1.265		56
243PU	57				1.286		57
243PU	58				1.299		58
243PU	59				1.302	1/2, 3/2	59
243PU	60				1.324		60

243PU	61				1.354		61
243PU	62				1.359		62
243PU	63				1.368	1/2, 3/2	63
243PU	64	1.387	3/2+				64
243PU	65				1.403		65
243PU	66				1.421	(3/2+)	66
243PU	67				1.435	1/2+, 3/2	67
243PU	68	1.439	31/2+				68
243PU	69				1.444		69
243PU	70				1.465		70

243PU	71				1.491	1/2-, 3/2-	71
243PU	72				1.517	(3/2-)	72
243PU	73	1.628	33/2+				73
243PU	74				1.700		74
243PU	75	1.824	35/2+				75
243PU	76	2.030	37/2+				76
243PU	77	2.243	39/2+				77
243PU	78	2.465	41/2+				78
243PU	79	2.692	43/2+				79
243PU	80	2.929	45/2+				80

243PU	81	3.167	47/2+				81

46 NS 13

243PU	82		3.413	49/2+				82
243PU	83		3.656	51/2+				83
243PU	84		3.901	53/2+				84
243PU	85		4.142	55/2+				85
243PU	86		4.384	57/2+				86
243PU	87					4.625	(59/2+)	87
S-n	=		5.034	(0.003)	-----			
243PU	88		5.034	1/2+				88

S-p = 6.951 (0.200)-----
S-n = 5.034 (0.003)-----
S-2p = 13.136 (0.241)-----
S-2n = 11.343 (0.003)-----
S-alpha= -4.757 (0.003)-----

S+p = -5.164 (0.003)
S+n = -6.020 (0.003)
S+2p = -11.328 (0.003)
S+2n = -10.719 (0.014)
S+alpha = 5.354 (0.005)

gap p = 1.787 (0.200)
gap n = -0.986 (0.004)
gap 2p = 1.808 (0.241)
gap 2n = 0.624 (0.014)
gap alpha = 0.597 (0.005)