

^{237}Pu $Z = 94$ $N = 143$ adopted link ENSDF link

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

BE = 1794.270 (0.002) MeV

Qbeta+ = 0.220 (0.002) MeV

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

S-alpha=	-5.748	(0.003)	-----		
237PU 1			0.000	7/2-	1 45.64 D 4
237PU 2			0.048	9/2-	2
237PU 3			0.106	11/2-	3
237PU 4	0.146	1/2+			4 0.18 S 2
237PU 5	0.155	3/2+			5
237PU 6			0.175	13/2-	6
237PU 7	0.201	5/2+			7
237PU 8	0.224	7/2+			8
237PU 9			0.257	15/2-	9
237PU 10	0.280	5/2+			10

237PU 11	0.304	9/2+			11
237PU 12	0.321	7/2+			12
237PU 13	0.370	3/2+			13
237PU 14	0.371	9/2+			14
237PU 15	0.404	5/2+			15
237PU 16	0.408	5/2+			16
237PU 17	0.438	7/2+			17
237PU 18	0.453	7/2+			18
237PU 19	0.474	7/2+			19
237PU 20				0.486 (9/2+)	20

237PU 21	0.513	9/2+			21
237PU 22				0.545 (1/2-)	22
237PU 23				0.582 (5/2-)	23
237PU 24				0.591 (3/2-)	24
237PU 25				0.655	25
237PU 26				0.655 (5/2-)	26
237PU 27				0.691 (7/2-)	27
237PU 28			0.696	7/2-	28
237PU 29				0.716	29
237PU 30				0.741	30

237PU 31				0.757	31
237PU 32				0.775	32
237PU 33	0.800	1/2+			33
237PU 34				0.809	34
237PU 35				0.840	35
237PU 36				0.851 3/2+,5/2+	36

237PU 37				0.852		37
237PU 38				0.884		38
237PU 39		0.909	7/2+			39
237PU 40				0.933		40

237PU 41				0.964		41
237PU 42				0.998		42
237PU 43				1.001	3/2+, 5/2, 7/2	43
237PU 44				1.014		44
237PU 45				1.025		45
237PU 46				1.053		46
237PU 47				1.104		47
237PU 48				1.189		48
237PU 49				1.216		49
237PU 50				1.250		50

237PU 51				1.264		51
237PU 52				1.348		52
237PU 53				1.383		53
237PU 54				1.397		54
237PU 55				1.463		55
237PU 56				1.481		56
237PU 57				1.534		57
237PU 58				2.600		58 97 NS 4
237PU 59				2.900		59 1.1 US 1

S-p = 5.575 (0.050)-----
S-n = 5.881 (0.002)-----
S-2p = 10.405 (0.002)-----
S-2n = 13.233 (0.021)-----
S-alpha= -5.748 (0.003)-----

S+p = -3.959 (0.059)
S+n = -7.000 (0.002)
S+2p = -8.523 (0.150)
S+2n = -12.646 (0.002)
S+alpha = 6.185 (0.002)

gap p = 1.616 (0.078)
gap n = -1.119 (0.003)
gap 2p = 1.883 (0.150)
gap 2n = 0.587 (0.021)
gap alpha = 0.438 (0.004)