

^{238}Pu $Z = 94$ $N = 144$ adopted link ENSDF link

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

BE = 1801.270 (0.001) MeV

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

S-alpha=	-5.593	(0.002)	-----					
238PU 1	0.000	0+						1 87.7 Y 1
238PU 2	0.044	2+						2 175 PS 3
238PU 3	0.146	4+						3
238PU 4	0.303	6+						4
238PU 5	0.513	8+						5
238PU 6				0.605	1-			6
238PU 7				0.661	3-			7
238PU 8				0.763	5-			8
238PU 9	0.772	10+						9
238PU 10				0.912	7-			10

238PU 11	0.941	0+						11
238PU 12				0.963	1-			12
238PU 13							0.968 (2-)	13 8.5 NS LT
238PU 14	0.983	2+						14 0.55 PS +15-11
238PU 15				0.985	2-			15
238PU 16							1.019	16
238PU 17	1.029	2+						17
238PU 18	1.070	3+						18
238PU 19	1.078	12+						19
238PU 20							1.083 (4)-	20 8.5 NS 5

238PU 21				1.102	9-			21
238PU 22							1.126 (4+)	22
238PU 23							1.134 (0+)	23
238PU 24							1.174 (2+)	24
238PU 25							1.202 (3)-	25
238PU 26	1.229	0+						26
238PU 27							1.252	27
238PU 28	1.264	2+						28
238PU 29							1.310 1+,2+	29
238PU 30				1.340	11-			30

238PU 31	1.426	14+						31
238PU 32	1.427	0+						32
238PU 33				1.447	1-			33
238PU 34	1.458	2+						34
238PU 35				1.560	1-			35
238PU 36							1.596 (2+)	36
238PU 37				1.621	1-			37

238PU	38			1.622	13-				38
238PU	39			1.636	1-				39
238PU	40					1.651	1,2+		40

238PU	41					1.726	1,2+		41
238PU	42					1.783	1,2+		42
238PU	43	1.816	16+						43
238PU	44			1.898	2-				44
238PU	45			1.945	15-				45
238PU	46	2.242	18+						46
238PU	47			2.308	17-				47
238PU	48					2.400			48 0.6 NS 2
238PU	49	2.702	20+						49
238PU	50			2.709	19-				50

238PU	51			3.144	21-				51
238PU	52	3.195	22+						52
238PU	53					3.500	(0+)		53 6.0 NS 15
238PU	54			3.611	23-				54
238PU	55	3.717	24+						55
238PU	56			4.105	25-				56
238PU	57	4.264	26+						57
238PU	58			4.623	27-				58
238PU	59	4.833	28+						59
238PU	60					5.161	(29-)		60

238PU	61					5.426	(30+)		61

S-p = 5.998 (0.002)-----
S-n = 7.000 (0.002)-----
S-2p = 10.859 (0.002)-----
S-2n = 12.881 (0.002)-----
S-alpha= -5.593 (0.002)-----

S+p = -4.062 (0.002)
S+n = -5.646 (0.002)
S+2p = -9.017 (0.002)
S+2n = -12.180 (0.002)
S+alpha = 6.216 (0.002)

gap p = 1.936 (0.003)
gap n = 1.354 (0.003)
gap 2p = 1.843 (0.003)
gap 2n = 0.701 (0.003)
gap alpha = 0.623 (0.002)