

^{242}Pu $Z = 94$ $N = 148$ adopted link ENSDF link

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

BE = 1825.001 (0.001) MeV

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

S-alpha=	-4.984	(0.002)	-----				
242PU 1	0.000	0+					1 3.75E+5 Y 2
242PU 2	0.045	2+					2 158 PS 3
242PU 3	0.147	4+					3
242PU 4	0.306	6+					4
242PU 5	0.518	8+					5
242PU 6	0.779	10+					6
242PU 7					0.780	(1-)	7
242PU 8			0.832	3-			8
242PU 9					0.865		9
242PU 10					0.927	(5-)	10

242PU 11					0.956	(0+)	11
242PU 12					0.993	(2+)	12
242PU 13			1.020	3-			13
242PU 14					1.039	(1+,2+)	14
242PU 15					1.064	(4-)	15
242PU 16	1.084	12+					16
242PU 17					1.092	(6+)	17
242PU 18					1.102	(2+)	18
242PU 19					1.122	(5-)	19
242PU 20					1.151	(2-)	20

242PU 21					1.155	(3-)	21
242PU 22					1.182	(2+)	22
242PU 23					1.204		23
242PU 24					1.259		24
242PU 25					1.357		25
242PU 26					1.401	(0,1+)	26
242PU 27					1.428	(2-)	27
242PU 28	1.432	14+					28
242PU 29					1.501		29
242PU 30					1.518	(1-)	30

242PU 31					1.613		31
242PU 32					1.638		32
242PU 33					1.650	(3-)	33
242PU 34					1.683		34
242PU 35					1.701		35
242PU 36					1.745		36
242PU 37					1.776		37

242PU	38		1.817	16+					38
242PU	39						1.826	(4+)	39
242PU	40						1.871		40

242PU	41						1.874		41
242PU	42						1.904		42
242PU	43						1.950	(1,2+)	43
242PU	44						1.970	(1,2+)	44
242PU	45						2.000		45 3.5 NS 6

S-p = 6.887 (0.100)-----
 S-n = 6.310 (0.002)-----
 S-2p = 12.577 (0.003)-----
 S-2n = 11.551 (0.002)-----
 S-alpha= -4.984 (0.002)-----

S+p = -4.831 (0.002)
 S+n = -5.034 (0.003)
 S+2p = -10.843 (0.002)
 S+2n = -11.054 (0.003)
 S+alpha = 5.475 (0.002)

gap p = 2.056 (0.100)
 gap n = 1.276 (0.003)
 gap 2p = 1.734 (0.003)
 gap 2n = 0.498 (0.003)
 gap alpha = 0.491 (0.003)