

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

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

BE = 1813.450 ( 0.001) MeV

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