

^{110}Ru $Z = 44$ $N = 66$ adopted link ENSDF link

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

BE = 933.494 (0.009) MeV

Qbeta- = 2.756 (0.020) MeV

	Energy T	J+	J-	J-other	T1/2
110RU 1	0.000	0+			1 12.04 S 17
110RU 2	0.241	2+			2 0.32 NS 2
110RU 3				0.613 (2+)	3 0.16 NS 8
110RU 4	0.663	4+			4 15.4 PS 17
110RU 5				0.860 (3+)	5
110RU 6				1.084 (4+)	6
110RU 7				1.137 (0+)	7
110RU 8	1.239	6+			8 2.4 PS 10
110RU 9				1.375 (5+)	9
110RU 10	1.396	2+			10
110RU 11				1.618 (4+)	11
110RU 12				1.656 (2,3,4+)	12
110RU 13				1.684 (6+)	13
110RU 14				1.799 (2,3,4+)	14
110RU 15				1.820 (2,3,4+)	15
110RU 16				1.861 (5+)	16
110RU 17				1.883 (2,3,4+)	17
110RU 18	1.944	8+			18
110RU 19				1.978 (2+,3,4+)	19
110RU 20				2.004 (2,3,4+)	20
110RU 21				2.016 (4-)	21
110RU 22				2.021 (7+)	22
110RU 23				2.042 (2,3,4)	23
110RU 24				2.047 (1,2+)	24
110RU 25				2.085 (2,3,4+)	25
110RU 26				2.111 (6+)	26
110RU 27				2.143 (1+,2,3,4+)	27
110RU 28				2.145 (5-)	28
110RU 29				2.153 (2,3,4+)	29
110RU 30				2.205 (2,3,4+)	30
110RU 31				2.243 (6-)	31
110RU 32				2.266 (2,3,4+)	32
110RU 33				2.328 (6-)	33
110RU 34				2.338 (2+,3,4+)	34
110RU 35				2.367 (2,3,4+)	35
110RU 36				2.397 (8+)	36
110RU 37				2.413	37

110RU	38				2.420	(1,2+)	38
110RU	39				2.427	(7-)	39
110RU	40				2.491	(2,3,4+)	40

110RU	41				2.517	(7-)	41
110RU	42				2.552	(1,2+)	42
110RU	43				2.574	(2,3,4+)	43
110RU	44				2.637	(8-)	44
110RU	45	2.760	10+				45
110RU	46				2.765	(8-)	46
110RU	47				2.777	(9+)	47
110RU	48				2.893	(9-)	48
110RU	49				2.943	(3-)	49
110RU	50				3.006	(1,2+)	50

110RU	51				3.020	(2,3,4+)	51
110RU	52				3.041	(9-)	52
110RU	53				3.072	(2,3,4+)	53
110RU	54				3.091		54
110RU	55				3.113	(9,10+)	55
110RU	56				3.175	(10-)	56
110RU	57				3.193	(9,10+)	57
110RU	58				3.254	(10+)	58
110RU	59				3.337	(10-)	59
110RU	60				3.485	(11-)	60

110RU	61				3.627	(11+)	61
110RU	62	3.647	12+				62
110RU	63				3.690	(11-)	63
110RU	64				3.700	(12+)	64
110RU	65				3.719	(12+)	65
110RU	66				3.819	(12-)	66
110RU	67				3.957	(12+)	67
110RU	68				4.039	(12-)	68
110RU	69				4.154	(12+)	69
110RU	70				4.195	(13-)	70

110RU	71	4.351	14+				71
110RU	72				4.371	(14+)	72
110RU	73				4.446	(13-)	73
110RU	74				4.556	(13+)	74
110RU	75				4.566	(14-)	75
110RU	76				4.874	(14-)	76
110RU	77				5.011	(15-)	77
110RU	78				5.125	(14+)	78
110RU	79				5.143	(16+)	79
110RU	80	5.151	16+				80

110RU	81				5.302	(15-)	81
110RU	82				5.413	(16-)	82

110RU	83				5.544	(15+)	83
110RU	84				6.017	(18+)	84
110RU	85		6.051	18+			85
S-alpha= 6.370 (0.013)-----							
110RU	86				7.054	(20+)	86
S-n = 7.406 (0.013)-----							
110RU	87				8.160	(22+)	87
S-p = 13.079 (0.013)-----							
S-n = 7.406 (0.013)-----							
S-2p = 23.901 (0.013)-----							
S-2n = 12.554 (0.012)-----							
S-alpha= 6.370 (0.013)-----							
S+p = -9.520 (0.011)							
S+n = -4.784 (0.013)							
S+2p = -20.826 (0.011)							
S+2n = -11.701 (0.013)							
S+alpha = -5.843 (0.011)							
gap p = 3.559 (0.017)							
gap n = 2.622 (0.018)							
gap 2p = 3.075 (0.017)							
gap 2n = 0.853 (0.018)							
gap alpha = 0.527 (0.017)							