

$^{106}\text{Ru}$        $Z = 44$        $N = 62$       adopted link      ENSDF link

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

BE = 907.460 ( 0.005) MeV

Qbeta- = 0.039 ( 0.008) MeV

	Energy T	J+	J-	J-other	T1/2
106RU 1	0.000	0+			1 371.8 D 18
106RU 2	0.270	2+			2 0.20 NS 3
106RU 3				0.715 (4+)	3
106RU 4	0.792	2+			4
106RU 5	0.991	0+			5
106RU 6				1.092 (3+)	6
106RU 7				1.296 (6+)	7
106RU 8				1.307 (4+)	8
106RU 9	1.392	2+			9
106RU 10				1.641 (5+)	10
106RU 11				1.688	11
106RU 12				1.774 (2+)	12
106RU 13				1.886 (2+)	13
106RU 14				1.908 (6+)	14
106RU 15				1.973 (8+)	15
106RU 16				2.151	16
106RU 17				2.239 (1)	17
106RU 18				2.284 (7+)	18
106RU 19				2.367 (4+)	19
106RU 20				2.467	20
106RU 21				2.486 (6-)	21
106RU 22				2.544 (7-)	22
106RU 23				2.569	23
106RU 24				2.633 (0+)	24
106RU 25				2.701 (1)	25
106RU 26	2.705	10+			26
106RU 27				2.729	27
106RU 28				2.771 (2+)	28
106RU 29				2.871 (8-)	29
106RU 30				2.876	30
106RU 31				2.931	31
106RU 32				2.946 (1,2)	32
106RU 33				2.960 (8+)	33
106RU 34				2.999	34
106RU 35				3.016	35
106RU 36				3.047 (1)	36
106RU 37				3.060 (1)	37

106RU	38				3.068	(9-)	38
106RU	39				3.186	(1)	39
106RU	40				3.210		40
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106RU	41				3.259	(1)	41
106RU	42				3.364	(1)	42
106RU	43				3.423	(10-)	43
106RU	44				3.450	(12+)	44
106RU	45				3.551	(1)	45
106RU	46				3.705	(11-)	46
106RU	47				3.930	(1,2)	47
106RU	48				4.119	(12-)	48
106RU	49				4.241	(14+)	49
106RU	50				4.446	(13-)	50
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S-p = 11.326 ( 0.036)-----  
 S-n = 8.460 ( 0.006)-----  
 S-2p = 20.557 ( 0.010)-----  
 S-2n = 14.370 ( 0.006)-----  
 S-alpha= 5.187 ( 0.010)-----

S+p = -7.829 ( 0.013)  
 S+n = -5.611 ( 0.010)  
 S+2p = -17.779 ( 0.006)  
 S+2n = -13.481 ( 0.010)  
 S+alpha = -4.433 ( 0.005)

gap p = 3.497 ( 0.038)  
 gap n = 2.849 ( 0.012)  
 gap 2p = 2.779 ( 0.012)  
 gap 2n = 0.889 ( 0.012)  
 gap alpha = 0.755 ( 0.011)