

$^{107}\text{Ru}$        $Z = 44$        $N = 63$       adopted link      ENSDF link

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

BE = 913.070 ( 0.009) MeV

Qbeta- = 3.001 ( 0.015) MeV

	Energy T	J+	J-	J-other	T1/2
107RU 1				0.000 (5/2)+	1 3.75 M 5
107RU 2				0.103	2 10.8 NS 5
107RU 3				0.106	3 33.4 NS 10
107RU 4				0.142	4
107RU 5				0.177	5 1.00 NS 7
107RU 6				0.200 (7/2+)	6
107RU 7				0.251 (9/2-)	7
107RU 8				0.291	8
107RU 9				0.301 (11/2-)	9
107RU 10				0.323	10
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107RU 11				0.360	11
107RU 12				0.428 (9/2+)	12
107RU 13				0.461	13
107RU 14				0.471	14
107RU 15				0.491	15
107RU 16				0.493	16 0.53 NS 31
107RU 17				0.561	17 0.17 NS 9
107RU 18				0.582	18
107RU 19				0.586	19
107RU 20				0.632 (13/2-)	20
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107RU 21				0.672 (15/2-)	21
107RU 22				0.677 (11/2+)	22
107RU 23				0.698	23
107RU 24				0.714	24
107RU 25				0.741	25
107RU 26				0.807	26
107RU 27				0.826	27
107RU 28				0.894	28
107RU 29				0.900	29
107RU 30				0.923	30
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107RU 31				0.957	31
107RU 32				0.958 (13/2+)	32
107RU 33				1.076	33
107RU 34				1.162	34
107RU 35				1.204 (17/2-)	35
107RU 36				1.225 (19/2-)	36
107RU 37				1.242 (15/2+)	37

107RU 38				1.284		38
107RU 39				1.486		39
107RU 40				1.551	(17/2+)	40
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107RU 41				1.555		41
107RU 42				1.680		42
107RU 43				1.757		43
107RU 44				1.845		44
107RU 45				1.870	(19/2+)	45
107RU 46				1.930	(21/2-)	46
107RU 47				1.937	(23/2-)	47
107RU 48				2.190	(21/2+)	48
107RU 49				2.556		49
107RU 50				2.558	(23/2+)	50
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107RU 51				2.680		51
107RU 52				2.785	(25/2-)	52
107RU 53				2.787	(27/2-)	53
107RU 54				2.884	(25/2+)	54
107RU 55				3.315	(27/2+)	55
107RU 56				3.765	(31/2-)	56

S-p = 11.375 ( 0.015)-----  
S-n = 5.611 ( 0.010)-----  
S-2p = 21.110 ( 0.013)-----  
S-2n = 14.071 ( 0.009)-----  
S-alpha= 5.333 ( 0.013)-----

S+p = -8.458 ( 0.016)  
S+n = -7.870 ( 0.012)  
S+2p = -18.322 ( 0.009)  
S+2n = -13.018 ( 0.012)  
S+alpha = -4.548 ( 0.009)

gap p = 2.918 ( 0.022)  
gap n = -2.260 ( 0.016)  
gap 2p = 2.788 ( 0.015)  
gap 2n = 1.052 ( 0.015)  
gap alpha = 0.785 ( 0.015)