

^{105}Ru $Z = 44$ $N = 61$ adopted link ENSDF link

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

BE = 899.000 (0.002) MeV

Qbeta- = 1.917 (0.004) MeV

	Energy T	J+		J-		J-other		T1/2
105RU	1	0.000	3/2+					1 4.439 H 11
105RU	2	0.021	5/2+					2 340 NS 15
105RU	3	0.108	5/2+					3
105RU	4	0.160	1/2+					4
105RU	5					0.164	(5/2+)	5 55 NS 7
105RU	6					0.186		6
105RU	7					0.209	(7/2-)	7 1 US LT
105RU	8	0.229	7/2+					8
105RU	9					0.244	(5/2+,7/2+)	9
105RU	10					0.246	(3/2+,5/2+)	10
105RU	11	0.273	3/2+					11
105RU	12	0.302	7/2+					12
105RU	13			0.322	3/2-			13
105RU	14					0.442	3/2+,5/2+	14
105RU	15					0.465	(9/2+)	15
105RU	16	0.466	3/2+					16
105RU	17					0.491	(1/2,3/2)-	17
105RU	18					0.574	(11/2-)	18
105RU	19			0.578	5/2-			19
105RU	20					0.582	3/2+,5/2+	20
105RU	21					0.621		21
105RU	22					0.626	(7/2+,9/2+)	22
105RU	23	0.631	1/2+					23
105RU	24					0.644	(1/2:7/2)	24
105RU	25					0.670	(11/2+)	25
105RU	26					0.671	(1/2+,3/2+)	26
105RU	27					0.726	(3/2:9/2)	27
105RU	28					0.757	(3/2,5/2)+	28
105RU	29					0.785	(1/2,3/2)-	29
105RU	30					0.802		30
105RU	31	0.806	1/2+					31
105RU	32	0.824	3/2+					32
105RU	33					0.836		33
105RU	34					0.841	(7/2,9/2)+	34
105RU	35	0.874	1/2+					35
105RU	36	0.887	3/2+					36
105RU	37					0.903	3/2+,5/2+	37

105RU 38				0.957	(1/2+,3/2,5/2+)	38
105RU 39				0.967	(1/2+,3/2+)	39
105RU 40				0.977	(13/2+)	40

105RU 41				0.994	(3/2+,5/2+)	41
105RU 42				1.059	(3/2+,5/2,7/2+)	42
105RU 43				1.114	(3/2+,5/2+)	43
105RU 44				1.135	(1/2+:7/2+)	44
105RU 45				1.143	(15/2-)	45
105RU 46				1.145	(3/2+,5/2+)	46
105RU 47				1.180	(3/2+,5/2+)	47
105RU 48				1.220	(15/2+)	48
105RU 49				1.326	(1/2,3/2)	49
105RU 50				1.329	(1/2+,3/2+)	50

105RU 51				1.575	(17/2+)	51
105RU 52				1.581	(3/2+,5/2+)	52
105RU 53				1.694	(1/2+,3/2+)	53
105RU 54				1.735	(1/2+,3/2+)	54
105RU 55				1.833	(1/2,3/2)	55
105RU 56				1.843	(1/2,3/2)	56
105RU 57				1.845	(19/2+)	57
105RU 58				1.845	(1/2+,3/2+)	58
105RU 59				1.868	(19/2-)	59
105RU 60				1.930	(3/2+,5/2+)	60

105RU 61				2.148	(3/2+)	61
105RU 62				2.155		62
105RU 63				2.327	(1/2+:5/2+)	63
105RU 64				2.353	(1/2+,3/2+)	64
105RU 65				2.380	(1/2+,3/2+)	65
105RU 66				2.404	(3/2+,5/2,7/2-)	66
105RU 67				2.404	(1/2-,3/2)	67
105RU 68				2.529	(23/2+)	68
105RU 69				2.711	(23/2-)	69
105RU 70				3.285	(27/2+)	70

105RU 71				3.641	(27/2-)	71

S-alpha=	4.839	(0.003)	-----		
S-n	=	5.910	(0.004)	-----	
105RU 72		5.910		1/2+		72

S-p	=	10.724	(0.025)	-----	
S-n	=	5.910	(0.004)	-----	
S-2p	=	19.558	(0.010)	-----	
S-2n	=	14.810	(0.003)	-----	
S-alpha=	4.839	(0.003)	-----		
S+p	=	-7.717	(0.006)	-----	

S+n = -8.460 (0.006)
S+2p = -17.016 (0.003)
S+2n = -14.071 (0.009)
S+alpha = -4.097 (0.003)

gap p = 3.007 (0.026)
gap n = -2.550 (0.007)
gap 2p = 2.542 (0.010)
gap 2n = 0.739 (0.009)
gap alpha = 0.742 (0.004)