

^{112}Ru $Z = 44$ $N = 68$ adopted link ENSDF link

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

BE = 945.195 (0.010) MeV

Qbeta- = 4.100 (0.045) MeV

	Energy T	J+	J-	J-other	T1/2
112RU 1	0.000	0+			1 1.75 S 7
112RU 2	0.237	2+			2 0.32 NS 3
112RU 3	0.524	2+			3
112RU 4	0.645	4+			4
112RU 5	0.747	3+			5
112RU 6	0.981	4+			6
112RU 7				1.027	7
112RU 8				1.179	8
112RU 9	1.190	6+			9
112RU 10	1.235	5+			10
112RU 11				1.414 (4+)	11
112RU 12	1.570	6+			12
112RU 13				1.650 (5+)	13
112RU 14	1.840	8+			14 1.84 PS 28
112RU 15	1.841	7+			15 2.50 PS 35
112RU 16				1.956 (6+)	16
112RU 17				1.995 (4-)	17
112RU 18				2.003 (5-)	18 1 NS LT
112RU 19				2.148 (5-)	19
112RU 20				2.230 (6-)	20
112RU 21				2.231 (7+)	21
112RU 22	2.263	8+			22
112RU 23				2.334 (6-)	23 1 NS LT
112RU 24				2.392	24
112RU 25				2.489 (7-)	25
112RU 26	2.534	9+			26 1.23 PS 18
112RU 27	2.563	10+			27 1.05 PS 16
112RU 28				2.574 (7-)	28
112RU 29				2.575 (8+)	29
112RU 30				2.772 (8-)	30
112RU 31				2.829 (8-)	31
112RU 32				2.900	32
112RU 33				2.909 (9+)	33
112RU 34	3.034	10+			34
112RU 35				3.077 (9-)	35
112RU 36				3.094 (9-)	36
112RU 37	3.290	11+			37 0.78 PS 11

112RU	38		3.326	12+					38	0.93 PS	9
112RU	39						3.380	(10-)	39		
112RU	40						3.421	(10-)	40		

112RU	41						3.520		41		
112RU	42						3.712	(11-)	42		
112RU	43						3.769	(11-)	43		
112RU	44		3.871	12+					44		
112RU	45						4.033	(12-)	45		
112RU	46		4.095	13+					46		
112RU	47		4.118	14+					47	1.6 PS	3
112RU	48						4.199	(12-)	48		
112RU	49						4.213		49		
112RU	50						4.429	(13-)	50		

112RU	51						4.562	(13-)	51		
112RU	52		4.764	14+					52		
112RU	53						4.770	(14-)	53		
112RU	54						4.789	(14+)	54		
112RU	55		4.951	15+					55		
112RU	56		4.955	16+					56		
112RU	57						5.073	(14-)	57		
112RU	58						5.228	(15-)	58		
112RU	59						5.701	(16+)	59		
112RU	60		5.830	18+					60		

112RU	61		5.857	17+					61		
112RU	62						6.725	(20+)	62		
112RU	63						6.800	(19+)	63		
S-alpha=	7.307	(0.013)	-----								
S-n	=	6.917	(0.014)	-----							
112RU	64						7.749	(22+)	64		

S-p	=	13.895	(0.014)	-----							
S-n	=	6.917	(0.014)	-----							
S-2p	=	25.673	(0.026)	-----							
S-2n	=	11.701	(0.013)	-----							
S-alpha=	7.307	(0.013)	-----								

S+p	=	-10.425	(0.012)								
S+n	=	-4.308	(0.039)								
S+2p	=	-22.437	(0.012)								
S+2n	=	-10.733	(0.010)								
S+alpha	=	-6.625	(0.012)								

gap p	=	3.470	(0.019)								
gap n	=	2.609	(0.042)								
gap 2p	=	3.236	(0.029)								
gap 2n	=	0.968	(0.017)								

gap alpha = 0.681 (0.018)