

^{89}Ru $Z = 44$ $N = 45$ adopted link ENSDF link

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

BE = 742.293 (0.024) MeV

Qbeta+ = 9.025 (0.025) MeV

	Energy T	J+	J-	J-other	T1/2

89RU 1				0.000 (9/2+)	1 1.32 S 3
89RU 2				0.864 (13/2+)	2
89RU 3				1.728	3
89RU 4				1.917 (17/2+)	4
89RU 5				1.968	5
89RU 6				2.458	6
89RU 7				2.767	7
89RU 8				2.954 (21/2+)	8
89RU 9				3.029	9
89RU 10				3.221	10

S-alpha=	3.285 (0.029)	-----			
89RU 11				3.303 (25/2+)	11
S-p =	3.988 (0.025)	-----			
89RU 12				4.219 (29/2+)	12
89RU 13				5.309 [33/2+]	13
S-2p =	6.063 (0.024)	-----			
89RU 14				6.239 [37/2+]	14
89RU 15				0.000 (9/2+)	15

S-p =	3.988 (0.025)	-----			
S-n =	12.069 (0.265)	-----			
S-2p =	6.063 (0.024)	-----			
S-2n =	28.806 (0.436)	-----			
S-alpha=	3.285 (0.029)	-----			

S+p =	-0.567 (0.182)				
S+n =	-14.586 (0.025)				
S+2p =	-2.360 (0.456)				
S+2n =	-26.013 (0.024)				
S+alpha =	-3.037 (0.371)				

gap p =	3.422 (0.183)				
gap n =	-2.516 (0.266)				
gap 2p =	3.703 (0.456)				
gap 2n =	2.793 (0.436)				
gap alpha =	0.247 (0.372)				