

⁹⁰Ru Z = 44 N = 46 adopted link ENSDF link

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

BE = 756.879 (0.004) MeV

Qbeta+ = 5.841 (0.004) MeV

	Energy T	J+	J-	J-other	T1/2
90RU 1	0.000	0+			1 11.7 S 9
90RU 2	0.738	2+			2
90RU 3	1.638	4+			3
90RU 4	2.524	6+			4
90RU 5				2.602 (5-)	5
90RU 6				2.802 (6+)	6
90RU 7				2.955 (6+)	7
90RU 8	3.036	8+			8
S-alpha=	3.198 (0.005)				
90RU 9				3.300 (7-)	9
90RU 10	3.983	10+			10
90RU 11				4.197 (9-)	11
S-p =	4.778 (0.005)				
90RU 12	4.958	12+			12
90RU 13				4.980 (11-)	13
90RU 14				5.311	14
90RU 15	5.731	14+			15
90RU 16				5.816 (13)	16
90RU 17				5.827 (13-)	17
90RU 18				6.098 (15)	18
90RU 19				6.143	19
90RU 20				6.261	20
90RU 21				6.389 (16)	21
90RU 22				6.749 (15-)	22
S-2p =	6.775 (0.005)				
90RU 23				7.417 (18)	23
90RU 24				7.655 (17-)	24
90RU 25				7.674	25
90RU 26				8.023	26
90RU 27				8.106	27
90RU 28				8.376 (19-)	28
90RU 29				8.622 (20+)	29
90RU 30				9.477 (21-)	30

S-p = 4.778 (0.005)

S-n = 14.586 (0.025)

S-2p	=	6.775	(	0.005)	-----
S-2n	=	26.655	(	0.264)	-----
S-alpha	=	3.198	(	0.005)	-----
S+p	=	-0.969	(	0.273)	
S+n	=	-11.427	(	0.004)	
S+2p	=	-4.473	(	0.345)	
S+2n	=	-25.560	(	0.005)	
S+alpha	=	-3.643	(	0.006)	
gap p	=	3.809	(	0.273)	
gap n	=	3.158	(	0.025)	
gap 2p	=	2.302	(	0.345)	
gap 2n	=	1.095	(	0.264)	
gap alpha	=	-0.446	(	0.007)	