

^{220}Rn $Z = 86$ $N = 134$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1697.796 (0.002) MeV

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

S-alpha=	-6.405	(0.002)	-----		
220RN 1	0.000	0+			1 55.6 S 1
220RN 2	0.241	2+			2 0.146 NS 5
220RN 3	0.534	4+			3
220RN 4			0.645	1-	4
220RN 5				0.663 (3-)	5
220RN 6				0.852 (5-)	6
220RN 7				0.874 (6+)	7
220RN 8				1.128 (7-)	8
220RN 9				1.244 (8+)	9
220RN 10				1.462 (9-)	10

220RN 11				1.631 (10+)	11
220RN 12				1.834 (11-)	12
220RN 13				2.034 (12+)	13
220RN 14				2.227 (13-)	14
220RN 15				2.453 (14+)	15
220RN 16				2.638 (15-)	16
220RN 17				2.887 (16+)	17
220RN 18				3.069 (17-)	18
220RN 19				3.325 (18+)	19
220RN 20				3.510 (19-)	20

220RN 21				3.764 (20+)	21
220RN 22				3.961 (21-)	22

S-p = 7.073 (0.004)-----
 S-n = 6.289 (0.003)-----
 S-2p = 12.323 (0.003)-----
 S-2n = 10.748 (0.003)-----
 S-alpha= -6.405 (0.002)-----

S+p = -4.624 (0.005)
 S+n = -4.212 (0.006)
 S+2p = -10.870 (0.005)
 S+2n = -10.382 (0.003)
 S+alpha = 5.789 (0.003)

gap p = 2.449 (0.006)
 gap n = 2.077 (0.007)

gap 2p = 1.453 (0.005)
gap 2n = 0.366 (0.004)
gap alpha = -0.616 (0.004)