

^{218}Rn $Z = 86$ $N = 132$ [link to full NNDC output](#)

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

BE = 1687.048 (0.002) MeV

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

S-alpha=	-7.263	(0.003)	-----		
218RN 1	0.000	0+			1 35 MS 5
218RN 2	0.324	2+			2 80 PS LT
218RN 3				0.653 (4+)	3
218RN 4				0.797 (3-)	4
218RN 5				0.840 (3-)	5
218RN 6				1.014 (6+)	6
218RN 7				1.026 (5-)	7
218RN 8				1.328 (7-)	8
218RN 9				1.393 (8+)	9
218RN 10				1.694 (9-)	10

218RN 11				1.775 (10+)	11
218RN 12				2.071 (11-)	12
218RN 13				2.169 (12+)	13
218RN 14				2.458 (13-)	14
218RN 15				2.577 (14+)	15
218RN 16				2.853 (15-)	16
218RN 17				3.002 (16+)	17
218RN 18				3.265 (17-)	18
218RN 19				3.438 (18+)	19
218RN 20				3.683 (19-)	20

218RN 21				3.859 (20+)	21
218RN 22				4.287 (22+)	22
218RN 23				4.725 (24+)	23
218RN 24				5.168 (26+)	24

S-p = 6.466 (0.006)-----
S-n = 6.512 (0.005)-----
S-2p = 11.143 (0.003)-----
S-2n = 11.178 (0.007)-----
S-alpha= -7.263 (0.003)-----

S+p = -3.889 (0.007)
S+n = -4.459 (0.003)
S+2p = -9.525 (0.008)
S+2n = -10.748 (0.003)
S+alpha = 6.678 (0.005)

gap p = 2.578 (0.009)
gap n = 2.053 (0.006)
gap 2p = 1.618 (0.009)
gap 2n = 0.430 (0.007)
gap alpha = -0.585 (0.006)