

^{216}Rn $Z = 86$ $N = 130$ [link to full NNDC output](#)

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

BE = 1675.870 (0.006) MeV

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

S-alpha=	-8.197 (0.006)	-----			
216RN 1	0.000	0+			1 45 US 5
216RN 2	0.461	2+			2
216RN 3	0.840	4+			3
216RN 4	1.226	6+			4
216RN 5	1.645	8+			5
216RN 6				1.786	6
216RN 7				1.837 (8+,9+,10+)	7
216RN 8				1.932	8
216RN 9	1.940	10+			9
216RN 10				2.342	10

216RN 11	2.406	12+			11
216RN 12			2.598	13-	12
216RN 13	2.826	14+			13
216RN 14				2.965	14
216RN 15			3.072	15-	15
216RN 16	3.238	16+			16
216RN 17			3.469	17-	17
216RN 18	3.572	18+			18
216RN 19			3.780	19-	19
216RN 20				4.072	20

216RN 21				4.300	21

S-p = 5.781 (0.009)-----
 S-n = 6.650 (0.010)-----
 S-2p = 9.855 (0.006)-----
 S-2n = 11.570 (0.011)-----
 S-alpha= -8.197 (0.006)-----

S+p = -3.227 (0.009)
 S+n = -4.665 (0.007)
 S+2p = -8.180 (0.013)
 S+2n = -11.178 (0.007)
 S+alpha = 7.593 (0.010)

gap p = 2.553 (0.013)
 gap n = 1.985 (0.012)
 gap 2p = 1.675 (0.014)

gap 2n = 0.392 (0.013)
gap alpha = -0.605 (0.012)