

^{214}Rn $Z = 86$ $N = 128$ adopted link ENSDF link

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

BE = 1664.300 (0.009) MeV

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

S-alpha=	-9.208 (0.009)				
214RN 1	0.000	0+			1 259 NS 3
214RN 2	0.695	2+			2 1.4 NS LT
214RN 3	1.141	4+			3 1.4 NS LT
214RN 4				1.332	4
214RN 5	1.443	6+			5 0.69 NS 21
214RN 6	1.625	8+			6 6.5 NS 17
214RN 7				1.801	7
214RN 8	1.928	10+			8 0.90 NS 21
214RN 9				1.945 (10)+	9
214RN 10				2.028 (10)+	10

214RN 11				2.100	11
214RN 12				2.209	12
214RN 13				2.320	13
214RN 14				2.377 (10+)	14
214RN 15			2.395 11-		15 1.4 NS LT
214RN 16				2.505	16
214RN 17				2.557 (12)+	17
214RN 18				2.649 (11,12)-	18
214RN 19				2.668	19
214RN 20			2.676 13-		20 3.7 NS 3

214RN 21				2.682	21
214RN 22				2.689	22
214RN 23	2.878	12+			23 1.4 NS LT
214RN 24				2.917	24
214RN 25	3.148	14+			25 1.4 NS LT
214RN 26				3.269 (14+)	26
214RN 27	3.328	16+			27 5.1 NS 3
214RN 28				3.465 (16+)	28
214RN 29	3.490	18+			29 44 NS 3
214RN 30				3.540	30

214RN 31				3.579 (18-)	31
214RN 32				3.610 (16+)	32
214RN 33			3.746 19-		33 2.4 NS 3
214RN 34				3.753	34
214RN 35				3.791	35
214RN 36				3.827 (20-)	36
214RN 37				3.907	37

214RN	38				3.941			38
214RN	39				4.064	(20)		39
214RN	40				4.220			40

214RN	41				4.250	(21)		41
214RN	42				4.262			42
214RN	43				4.517			43
214RN	44				4.555			44
214RN	45				4.595	(22+)		45
214RN	46				4.751	(23+)		46
214RN	47				4.859			47
214RN	48				4.977	(25+)		48
S-p	=	5.029	(0.010)	-----			
214RN	49				5.051			49

S-p = 5.029 (0.010)-----
 S-n = 6.695 (0.010)-----
 S-2p = 8.528 (0.009)-----
 S-2n = 11.803 (0.010)-----
 S-alpha= -9.208 (0.009)-----

S+p = -2.651 (0.012)
 S+n = -4.920 (0.011)
 S+2p = -6.967 (0.012)
 S+2n = -11.569 (0.011)
 S+alpha = 8.540 (0.013)

gap p = 2.378 (0.016)
 gap n = 1.775 (0.015)
 gap 2p = 1.562 (0.015)
 gap 2n = 0.234 (0.015)
 gap alpha = -0.668 (0.016)