

^{222}Rn $Z = 86$ $N = 136$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1708.179 (0.002) MeV

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

S-alpha=	-5.590	(0.003)	-----			

222RN	1 0.000	0+				1 3.8222 D 9
222RN	2 0.186	2+				2 0.32 NS 2
222RN	3 0.448	4+				3 52.5 PS +44-23
222RN	4			0.601	1-	4 0.7 PS +11-5
222RN	5			0.636	3-	5 0.4 NS AP
222RN	6 0.768	(6+)				6 15.9 PS +18-11
222RN	7			0.797	(5-)	7
222RN	8 0.867	(0+)				8
222RN	9 0.867	(2+)				9
222RN	10 0.959	(3+)				10

222RN	11			1.049	(7-)	11
222RN	12 1.112	(4+)				12
222RN	13 1.128	(8+)				13 7.3 PS +11-16
222RN	14			1.357	(9-)	14 7 PS +9-5
222RN	15 1.513	(10+)				15 7.8 PS +51-12
222RN	16			1.708	(11-)	16
222RN	17 1.913	(12+)				17
222RN	18			2.089	(13-)	18
222RN	19 2.317	(14+)				19
222RN	20			2.485	(15-)	20

222RN	21 2.727	(16+)				21
222RN	22			2.882	(17-)	22
222RN	23			3.286	(19-)	23
222RN	24			3.696	(21-)	24

S-p = 7.700 (0.014) -----
 S-n = 6.171 (0.006) -----
 S-2p = 13.469 (0.018) -----
 S-2n = 10.383 (0.003) -----
 S-alpha= -5.590 (0.003) -----

S+p = -5.279 (0.003)
 S+n = -4.054 (0.008)
 S+2p = -12.124 (0.003)
 S+2n = -10.070 (0.010)
 S+alpha = 4.871 (0.003)

gap p = 2.421 (0.014)
gap n = 2.117 (0.010)
gap 2p = 1.345 (0.018)
gap 2n = 0.313 (0.010)
gap alpha = -0.720 (0.004)