

^{207}Rn $Z = 86$ $N = 121$ adopted link ENSDF link

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

BE = 1612.116 (0.005) MeV

Qbeta+ = 4.593 (0.013) MeV

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

S-alpha=	-6.251	(0.007)	-----		
207RN 1			0.000	5/2-	1 9.25 M 17
207RN 2			0.120	3/2-	2
207RN 3				0.267	3
207RN 4				0.283	(1/2-,3/2-)
207RN 5				0.596	5
207RN 6				0.602	6
207RN 7			0.665	9/2-	7
207RN 8	0.899	13/2+			8 184.5 US 9
207RN 9				1.397	(13/2-)
207RN 10				1.482	(17/2+)

207RN 11				1.633	(15/2)
207RN 12				1.683	(17/2-)
207RN 13				1.739	(19/2)
207RN 14				1.904	(21/2+)
207RN 15				2.192	(23/2)
207RN 16				2.324	(25/2)
207RN 17				2.359	(23/2)
207RN 18				2.385	(23/2)
207RN 19				2.614	(29/2)
207RN 20				2.778	(27/2)

207RN 21				2.841	(33/2)
207RN 22				2.902	(27/2)
207RN 23				3.013	(37/2)

S-p = 3.484 (0.014)-----
S-n = 7.573 (0.010)-----
S-2p = 5.691 (0.011)-----
S-2n = 17.068 (0.007)-----
S-alpha= -6.251 (0.007)-----

S+p = -1.319 (0.013)
S+n = -9.092 (0.011)
S+2p = -4.085 (0.007)
S+2n = -16.449 (0.011)
S+alpha = 7.042 (0.007)

gap p = 2.165 (0.019)
gap n = -1.519 (0.015)
gap 2p = 1.606 (0.013)
gap 2n = 0.619 (0.013)
gap alpha = 0.790 (0.010)