

^{212}Rn $Z = 86$ $N = 126$ adopted link ENSDF link

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

BE = 1652.497 (0.003) MeV

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

S-alpha=	-6.385	(0.004)	-----		

212RN 1	0.000	0+			1 23.9 M 12
212RN 2	1.274	2+			2
212RN 3	1.501	4+			3 8.80 NS 35
212RN 4	1.640	6+			4 118 NS 14
212RN 5	1.694	8+			5 0.91 US 3
212RN 6	2.116	8+			6
212RN 7				2.121 3	7
212RN 8	2.172	(6+)			8
212RN 9	2.306	5(+)			9
212RN 10	2.314	7(+)			10

212RN 11	2.324	4+			11
212RN 12				2.403	12
212RN 13				2.438	13
212RN 14				2.455	14
212RN 15				2.613	15
212RN 16	2.655	10+			16
212RN 17	2.686	(6+)			17
212RN 18				2.696	18
212RN 19			2.761	11-	19 5.5 NS 2
212RN 20				2.833	20

212RN 21	2.865	(6+)			21
212RN 22	2.881	12+			22 2.08 NS 14
212RN 23				2.967	23
212RN 24	3.066	(10+)			24
212RN 25				3.250	25
212RN 26				3.278 (11)	26
212RN 27	3.298	12+			27
212RN 28	3.358	14+			28 7.4 NS 9
212RN 29				3.476	29
212RN 30				3.494	30

212RN 31				3.510	31
212RN 32	3.687	(12+)			32
212RN 33			3.735	(13-)	33
212RN 34			3.991	15-	34
212RN 35				3.998	35
212RN 36				4.046	36

212RN	37				4.067	17-			37	28.9 NS	14
212RN	38				4.135	(16-)			38		
212RN	39				4.151	(15-)			39		
S-p	=		4.301 (0.004)	-----							
212RN	40				4.582	17-			40		
212RN	41							4.929	41		
212RN	42				5.114	18-			42		
212RN	43							5.357	43		
212RN	44		5.427	20+					44	5.2 NS	5
212RN	45				5.772	19-			45		
212RN	46							5.794	46		
212RN	47		6.167	20+					47		
212RN	48		6.174	(22+)					48	101.8 NS	35
212RN	49		6.709	(23+)					49		
212RN	50							6.821	50		
212RN	51				7.142	(25-)			51	18.0 NS	6
212RN	52							7.178	52		
S-2p	=		7.284 (0.003)	-----							
212RN	53				7.525	(25-)			53		
212RN	54				7.819	(26-)			54		
212RN	55				7.863	(26-)			55		
212RN	56				7.878	(27-)			56	14 NS	4
S-n	=		7.975 (0.007)	-----							
212RN	57				8.362	(27-)			57		
212RN	58		8.497	(28+)					58		
212RN	59		8.557	(28+)					59		
212RN	60		8.579	(30+)					60	154 NS	14
212RN	61		8.933	(30+)					61		
212RN	62							9.028	62		
212RN	63		9.447	(31+)					63		
212RN	64		9.509	(31+)					64		
212RN	65							9.608 (31)	65		
212RN	66				9.696	(33-)			66	4.9 NS	7
212RN	67							10.102	67		
212RN	68		10.125	(32+)					68		
212RN	69				10.620	(34-)			69	20 NS	AP
212RN	70							10.843 (32)	70		
212RN	71							10.961 (33)	71		
212RN	72							11.086	72		
212RN	73							11.175 (34)	73		
212RN	74				11.262	(35-)			74		
212RN	75				11.354	(35-)			75	3.5 NS	LT
212RN	76							11.462	76		
212RN	77							11.671	77		
212RN	78				11.827	(36-)			78		
212RN	79							11.880	79		

212RN	80				12.053	37(-)				80

212RN	81							12.166		81
212RN	82				12.211	37(-)				82 17.3 NS 14
212RN	83		12.548							83 8.3 NS 14
212RN	84							13.375		84
212RN	85							13.445		85

S-p = 4.301 (0.004) -----
S-n = 7.975 (0.007) -----
S-2p = 7.284 (0.003) -----
S-2n = 15.197 (0.006) -----
S-alpha= -6.385 (0.004) -----

S+p = -2.184 (0.006)
S+n = -5.108 (0.005)
S+2p = -5.826 (0.006)
S+2n = -11.803 (0.010)
S+alpha = 9.526 (0.009)

gap p = 2.117 (0.007)
gap n = 2.867 (0.009)
gap 2p = 1.458 (0.007)
gap 2n = 3.394 (0.011)
gap alpha = 3.141 (0.009)