

^{216}Ra $Z = 88$ $N = 128$ [link to full NNDC output](#)

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

BE = 1671.267 (0.009) MeV

Qbeta+ = 0.320 (0.010) MeV

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

S-alpha=	-9.526	(0.009)	-----		
216RA 1	0.000	0+			1 182 NS 10
216RA 2	0.688	2+			2
216RA 3	1.164	4+			3
216RA 4	1.508	6+			4 0.2 NS LT
216RA 5	1.711	8+			5 1.42 NS 20
216RA 6	2.026	10+			6 0.6 NS 1
216RA 7			2.335	11-	7
216RA 8			2.679	13-	8 0.96 NS 20
216RA 9	3.293	14+			9
216RA 10				3.413	10

216RA 11	3.492	16+			11
216RA 12				3.581	12
216RA 13	3.582	16+			13
216RA 14	3.712	18+			14
216RA 15			3.763	19-	15 5.34 NS 15
S-p	= 4.316	(0.011)	-----		
216RA 16				4.320	(20)- 16
216RA 17				4.719	(21)- 17
216RA 18				4.977	(23)- 18
216RA 19				5.170	19 6.6 NS 3
216RA 20				5.471	20

216RA 21				5.832	21
216RA 22				6.266	22

S-p = 4.316 (0.011)-----

S-n = 7.314 (0.011)-----

S-2p = 6.967 (0.013)-----

S-2n = 12.944 (0.010)-----

S-alpha= -9.526 (0.009)-----

S+p = -1.876 (0.014)

S+n = -5.473 (0.011)

S+2p = -5.502 (0.014)

S+2n = -12.783 (0.014)

S+alpha = 8.953 (0.024)

gap p = 2.440 (0.018)
gap n = 1.841 (0.016)
gap 2p = 1.465 (0.019)
gap 2n = 0.162 (0.017)
gap alpha = -0.573 (0.026)