

^{229}Ra $Z = 88$ $N = 141$ adopted link ENSDF link

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

BE = 1746.923 (0.015) MeV

Qbeta- = 1.872 (0.020) MeV

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

S-alpha=	-3.603	(0.019)	-----		
229RA 1	0.000	5/2+			1 4.0 M 2
229RA 2				0.041 (7/2)+	2
229RA 3				0.107 (5/2)+	3
229RA 4			0.137 5/2-		4 0.66 NS 4
229RA 5	0.143	1/2+			5 17.23 NS 12
229RA 6	0.169	3/2+			6 106 PS 18
229RA 7	0.213	3/2+			7 18 PS 14
229RA 8			0.479 1/2-		8 30 PS LE
229RA 9				0.501 (5/2+)	9
229RA 10				0.518 (3/2)-	10

229RA 11			0.541 5/2-		11
229RA 12				0.551 3/2-,5/2-,7/2-	12
229RA 13				0.563	13
229RA 14			0.566 3/2-		14
229RA 15				0.598	15
229RA 16				0.665	16
229RA 17				0.753 (1/2,3/2)-	17
229RA 18				0.773	18
229RA 19				0.814	19
229RA 20				0.836	20

229RA 21				0.871	21
229RA 22				0.935	22
229RA 23				1.042	23
229RA 24				1.323	24
229RA 25				1.340	25
229RA 26				1.376	26
229RA 27				1.410	27
229RA 28				1.425	28
229RA 29				1.437	29
229RA 30				1.461	30

229RA 31				1.609	31
229RA 32				1.697	32
229RA 33				1.721	33

S-p = 8.111 (0.017)-----

S-n = 4.450 (0.016)-----
S-2p = 14.902 (0.021)-----
S-2n = 10.758 (0.016)-----
S-alpha= -3.603 (0.019)-----

S+p = -6.013 (0.022)
S+n = -6.117 (0.019)
S+2p = -13.324 (0.015)
S+2n = -10.488 (0.019)
S+alpha = 3.745 (0.016)

gap p = 2.099 (0.028)
gap n = -1.667 (0.024)
gap 2p = 1.578 (0.026)
gap 2n = 0.270 (0.025)
gap alpha = 0.142 (0.025)