

^{50}Ca $Z = 20$ $N = 30$ [link to full NNDC output](#)

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

BE = 427.508 (0.002) MeV

Qbeta- = 4.958 (0.015) MeV

	Energy T	J+	J-	J-other	T1/2
50CA 1	0.000	0+			1 13.9 S 6
50CA 2	1.027	2+			2 66.5 PS 21
50CA 3				3.002 (2+)	3
50CA 4				3.532 (1,2+)	4
50CA 5				3.997 (3-)	5
50CA 6				4.036 (1,2+)	6
50CA 7				4.476 (0+)	7
50CA 8				4.515 (4+)	8
50CA 9				4.830 (4)	9
50CA 10				4.870 (2+)	10
50CA 11				4.886 (1-)	11
50CA 12				4.970 (4+&5-)	12
50CA 13				5.043 (1-)	13
50CA 14				5.084 (4-)	14
50CA 15				5.110 (5-)	15
50CA 16				5.147 (5+)	16
50CA 17				5.168	17
50CA 18				5.281	18
50CA 19				5.362	19
50CA 20				5.434	20
50CA 21				5.517 (5-)	21
50CA 22				5.576	22
S-n =	6.361 (0.002)				
50CA 23				6.510	23
50CA 24				6.869 (7-)	24
50CA 25				7.030	25
50CA 26				7.260	26
50CA 27				7.300	27
50CA 28				7.610	28
50CA 29				7.990	29
50CA 30				8.240	30
50CA 31				8.380 (7-)	31
50CA 32				8.800	32
50CA 33				8.980 (7-)	33
50CA 34				9.230	34
50CA 35				9.770	35
50CA 36				9.800 (6+)	36

50CA	37				10.330	(8+)	37
50CA	38				10.430		38
50CA	39				10.540		39
50CA	40				11.050		40

50CA	41				11.470		41

S-p = 17.267 (0.002)-----
S-n = 6.361 (0.002)-----
S-2p = 31.886 (0.307)-----
S-2n = 11.507 (0.002)-----
S-alpha= 12.241 (0.002)-----

S+p = -10.928 (0.020)
S+n = -4.814 (0.002)
S+2p = -24.459 (0.007)
S+2n = -10.820 (0.002)
S+alpha = -8.458 (0.082)

gap p = 6.338 (0.020)
gap n = 1.546 (0.002)
gap 2p = 7.427 (0.307)
gap 2n = 0.688 (0.002)
gap alpha = 3.784 (0.082)