

$^{51}\text{Ca}$        $Z = 20$        $N = 31$       [link to full NNDC output](#)

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

BE = 432.323 ( 0.001) MeV

Qbeta- = 6.896 ( 0.020) MeV

	Energy T	J+	J-	J-other	T1/2
51CA 1				0.000	3/2(-) 1 10.0 S 8
51CA 2				1.240	2
51CA 3				1.718	(1/2-) 3
51CA 4				1.940	4
51CA 5				2.378	(5/2-) 5
51CA 6				2.934	(3/2-) 6
51CA 7				3.462	(7/2-) 7
51CA 8				3.477	(5/2-) 8
51CA 9				3.501	9
51CA 10				3.580	10
51CA 11				3.844	(7/2+) 11
51CA 12				4.040	12
51CA 13				4.155	(9/2+) 13
51CA 14				4.320	(9/2-) 14
51CA 15				4.493	15
S-n	=	4.814 ( 0.002)	-----		
51CA 16				5.678	16
51CA 17				6.684	17
51CA 18				6.776	18
51CA 19				7.060	19
51CA 20				7.420	20
51CA 21				8.110	21
51CA 22				8.360	22
51CA 23				8.620	23
51CA 24				8.820	24
51CA 25				9.050	25
51CA 26				9.330	26
51CA 27				9.590	27
51CA 28				9.700	28
51CA 29				9.820	29
51CA 30				10.340	30
51CA 31				10.670	31
51CA 32				10.890	32

S-p = 17.893 ( 0.008)-----

S-n = 4.814 ( 0.002)-----

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S-2p = 0.000 ( 0.000)-----  
S-2n = 11.175 ( 0.001)-----  
S-alpha= 13.391 ( 0.001)-----  
  
S+p = -11.400 ( 0.082)  
S+n = -6.005 ( 0.001)  
S+2p = -25.077 ( 0.100)  
S+2n = -9.198 ( 0.044)  
S+alpha = -7.761 ( 0.162)  
  
gap p = 6.494 ( 0.082)  
gap n = -1.191 ( 0.002)  
gap 2p = 0.000 ( 0.000)  
gap 2n = 1.977 ( 0.044)  
gap alpha = 5.630 ( 0.162)
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