

^{50}Ca $Z = 20$ $N = 30$ adopted link ENSDF link

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

BE = 427.508 (0.002) MeV

Qbeta- = 4.948 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
50CA 1	0.000	0+			1 13.45 S 5
50CA 2	1.027	2+			2 66.5 PS 21
50CA 3				3.002 (2+)	3 0.69 PS LT
50CA 4				3.532 (1,2+)	4
50CA 5				3.997 (3-)	5 0.69 PS LT
50CA 6				4.036 (1,2+)	6
50CA 7				4.476 (0+)	7
50CA 8				4.515 (4+)	8 1.04 PS LT
50CA 9				4.831 (4)	9 0.69 PS LT
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				5.085 (4-)	14
50CA 15				5.110 (5-)	15 0.69 PS LT
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				6.519	23
50CA 24				6.869 (7-)	24
50CA 25				7.039	25
50CA 26				7.269	26
50CA 27				7.309	27
50CA 28				7.619	28
50CA 29				7.999	29
50CA 30				8.249	30
50CA 31				8.380 (7-)	31
50CA 32				8.810 (0-,1-)	32
50CA 33				8.980 (7-)	33
50CA 34				9.239 (0-,1-)	34
50CA 35				9.779 (0-,1-)	35
50CA 36				9.800 (6+)	36

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S-p    = 17.267 ( 0.002)-----  
S-n    =  6.361 ( 0.002)-----  
S-2p   = 31.812 ( 0.017)-----  
S-2n   = 11.507 ( 0.002)-----  
S-alpha= 12.243 ( 0.003)-----  
  
S+p    = -10.950 ( 0.003)  
S+n    =  -4.814 ( 0.002)  
S+2p   = -24.466 ( 0.003)  
S+2n   = -10.820 ( 0.002)  
S+alpha =  -8.579 ( 0.016)  
  
gap p   =  6.317 ( 0.003)  
gap n   =  1.546 ( 0.002)  
gap 2p  =  7.346 ( 0.017)  
gap 2n  =  0.687 ( 0.002)  
gap alpha =  3.663 ( 0.016)
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