

$^{38}\text{Ca}$        $Z = 20$        $N = 18$       [link to full NNDC output](#)

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

BE = 313.122 ( 0.000) MeV

Qbeta+ = 6.742 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
38CA 1	0.000	0+			1 443.76 MS 35
38CA 2	2.213	2+			2 0.56 PS +16-10
38CA 3	3.084	0+			3 19 PS +10-7
38CA 4	3.684	2+			4 29 FS +15-9
38CA 5				3.704 (3-)	5 0.16 PS +7-6
38CA 6				4.194 (5-)	6
38CA 7	4.384	2+			7 24 FS +12-8
38CA 8				4.412 (5-)	8
S-p =	4.547 ( 0.000)				
-----					
38CA 9	4.748	0+			9
38CA 10				4.860 (3-)	10
-----					
38CA 11	4.902	2+			11
38CA 12	5.164	2+			12
38CA 13	5.266	2+			13
38CA 14				5.430	14
38CA 15			5.601 3-		15
38CA 16				5.704	16
38CA 17				5.816 (4+)	17
S-alpha=	6.105 ( 0.000)				
-----					
38CA 18				6.136	18
38CA 19	6.277	0+			19
S-2p =	6.405 ( 0.000)				
-----					
38CA 20				6.485	20
-----					
38CA 21				6.601	21
38CA 22				6.704	22
38CA 23				6.770	23
38CA 24				6.801	24
38CA 25				6.950	25
38CA 26				7.041	26
38CA 27				7.176	27
38CA 28				7.208	28
38CA 29				7.480	29
38CA 30				7.801	30
-----					
38CA 31				8.026	31
38CA 32				8.189	32
38CA 33				8.322	33
38CA 34				8.507	34
-----					

38CA 35				8.587	35
38CA 36				8.672	36
38CA 37				8.717	37
38CA 38				8.924	38
38CA 39				8.994	39
38CA 40				9.073	40
-----					
38CA 41				9.157	41
38CA 42				9.230	42
38CA 43				9.296	43
38CA 44				9.735	44
38CA 45				9.809	45
38CA 46				10.104	46
38CA 47				10.410	47
38CA 48				10.557	48
38CA 49				10.946	49
38CA 50				11.089	50
-----					
38CA 51				11.189	51
38CA 52				11.861	52

S-p = 4.547 ( 0.000)-----  
S-n = 16.994 ( 0.001)-----  
S-2p = 6.405 ( 0.000)-----  
S-2n = 31.750 ( 0.040)-----  
S-alpha= 6.105 ( 0.000)-----

S+p = 0.597 ( 0.024)  
S+n = -13.296 ( 0.001)  
S+2p = -1.370 ( 0.160)  
S+2n = -28.931 ( 0.000)  
S+alpha = -5.471 ( 0.000)

gap p = 5.144 ( 0.024)  
gap n = 3.698 ( 0.001)  
gap 2p = 5.035 ( 0.160)  
gap 2n = 2.819 ( 0.040)  
gap alpha = 0.634 ( 0.000)