

$^{38}\text{Ca}$        $Z = 20$        $N = 18$       adopted link      ENSDF link

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

BE = 313.122 ( 0.000) MeV

Qbeta+ = 6.742 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
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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)				
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38CA 9	4.748	0+			9
38CA 10				4.860 (3-)	10
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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)				
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38CA 18				6.136	18
38CA 19	6.277	0+			19
S-2p =	6.405 ( 0.000)				
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38CA 20				6.485	20
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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
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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
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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

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 = -1.513 ( 0.068)  
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 = 4.892 ( 0.068)  
gap 2n = 2.819 ( 0.040)  
gap alpha = 0.634 ( 0.000)