

^{46}Ca $Z = 20$ $N = 26$ [link to full NNDC output](#)

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

BE = 398.773 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
46CA 1	0.000	0+			1 STABLE
46CA 2	1.346	2+			2 3.6 PS 3
46CA 3	2.423	0+			3 4.5 PS GT
46CA 4	2.575	4+			4
46CA 5	2.974	6+			5 10.4 NS 5
46CA 6	3.023	2+			6
46CA 7			3.614 3-		7
46CA 8	3.639	2+			8
46CA 9	3.860	4+			9
46CA 10				3.952	10
46CA 11				3.988 (3-)	11
46CA 12			4.185 5-		12
46CA 13				4.261	13
46CA 14			4.407 3-		14
46CA 15	4.430	2+			15
46CA 16				4.489 (4+)	16
46CA 17			4.729 5-		17
46CA 18				4.745 (4+)	18
46CA 19	4.758	0+			19
46CA 20				4.995 (4+)	20
46CA 21				5.014	21
46CA 22				5.051 (4+)	22
46CA 23				5.152 (4+)	23
46CA 24				5.218	24
46CA 25	5.252	4+			25
46CA 26	5.317	0+			26
46CA 27				5.380 (3-)	27
46CA 28				5.392	28
46CA 29				5.417	29
46CA 30	5.437	4+			30
46CA 31				5.474 (3-)	31
46CA 32				5.537 (4+)	32
46CA 33	5.600	0+			33
46CA 34	5.628	0+			34
46CA 35				5.638	35
46CA 36				5.679	36
46CA 37				5.690	37
46CA 38				5.722	38

46CA 39						5.782		39	
46CA 40						5.821		40	

46CA 41						5.851		41	
46CA 42						5.863	(6+)	42	
46CA 43						5.958	(2+)	43	
46CA 44						5.987	(6+)	44	
46CA 45						6.010		45	
46CA 46						6.036	(4+)	46	
46CA 47						6.047	(0+)	47	
46CA 48						6.077		48	
46CA 49						6.116	(2+)	49	
46CA 50						6.156		50	

46CA 51						6.201		51	
46CA 52						6.252	(4+)	52	
46CA 53		6.267	2+					53	
46CA 54						6.309		54	
46CA 55		6.372	2+					55	
46CA 56						6.555	(0+)	56	
46CA 57		6.626	2+					57	
46CA 58						6.745		58	
46CA 59						6.836		59	
46CA 60						6.964		60	

46CA 61						7.025	(2+)	61	
46CA 62						7.055	5-,6+	62	
46CA 63						7.098		63	
46CA 64						7.168		64	
46CA 65						7.233	(0+)	65	
46CA 66						7.267	(0+)	66	
46CA 67						7.311		67	
46CA 68						7.380		68	
46CA 69						7.438		69	
46CA 70						7.490	(2+)	70	

46CA 71						7.503		71	
46CA 72						7.667	(2+,5-)	72	
46CA 73						7.738		73	
46CA 74		7.830	0+					74	
46CA 75						7.914		75	
46CA 76				8.382	7-			76	
46CA 77				8.770	7-			77	
46CA 78				9.070	5-			78	
46CA 79						9.680	5-,6+,8+	79	

S-alpha=	11.142	(0.006)						
S-n	=	10.398	(0.002)					

46CA 80						12.660	6+,8+,7-	80	

46CA 81		13.020	1+					81 0.022 FS 7	

46CA	82				13.130	6+,8+,7-	82
S-p = 13.813 (0.002)-----							
46CA	83				13.895		83
46CA	84		14.488	3-			84
46CA	85				14.610		85
46CA	86		14.795	5-			86
46CA	87		15.279	3-			87
46CA	88				15.847		88
46CA	89				16.155	(0+)	89
46CA	90				16.721	(2+)	90

46CA	91				17.295		91

S-p = 13.813 (0.002)-----
S-n = 10.398 (0.002)-----
S-2p = 25.044 (0.003)-----
S-2n = 17.813 (0.002)-----
S-alpha= 11.142 (0.006)-----

S+p = -8.486 (0.003)
S+n = -7.276 (0.003)
S+2p = -19.931 (0.002)
S+2n = -17.228 (0.002)
S+alpha = -10.717 (0.002)

gap p = 5.326 (0.004)
gap n = 3.122 (0.004)
gap 2p = 5.113 (0.004)
gap 2n = 0.585 (0.003)
gap alpha = 0.424 (0.007)