

^{46}Ca $Z = 20$ $N = 26$ adopted link ENSDF link

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

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-p = 13.813 (0.002)-----
S-n = 10.399 (0.002)-----
S-2p = 25.044 (0.003)-----

S-2n = 17.814 (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 = 5.327 (0.004)
gap n = 3.122 (0.004)
gap 2p = 5.113 (0.004)
gap 2n = 0.586 (0.003)
gap alpha = 0.425 (0.007)