

^{40}Cl $Z = 17$ $N = 23$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 337.111 (0.032) MeV

Qbeta- = 7.482 (0.032) MeV

	Energy T	J+	J-	J-other	T1/2
40CL 1			0.000 2-		1 1.35 M 3
40CL 2			0.212 (1-)		2
40CL 3			0.244 (3-)		3 10 NS LT
40CL 4				0.367 (2)	4
40CL 5				0.432 (1:3+)	5
40CL 6			0.601 (4-)		6 7 NS LT
40CL 7			0.681 (4-)		7
40CL 8			0.839 (5-)		8
40CL 9	0.890	1+			9
40CL 10			1.160 (4-)		10
40CL 11				1.293 (0-,1,2)	11
40CL 12				1.580	12
40CL 13				1.740	13
40CL 14			2.015 (6-)		14 3.5 PS LE
40CL 15				2.194 (5)	15
40CL 16	2.307	1+			16
40CL 17				2.414 (6)	17
40CL 18			2.620 (7-)		18 3.5 PS LE
40CL 19			4.087 (8-)		19

S-p = 11.684 (0.059) -----
 S-n = 5.829 (0.032) -----
 S-2p = 27.514 (0.079) -----
 S-2n = 13.902 (0.032) -----
 S-alpha= 9.732 (0.035) -----

S+p = -12.799 (0.032)
 S+n = -7.821 (0.076)
 S+2p = -22.042 (0.032)
 S+2n = -13.417 (0.068)
 S+alpha = -10.649 (0.032)

gap p = -1.115 (0.068)
 gap n = -1.992 (0.082)
 gap 2p = 5.472 (0.086)
 gap 2n = 0.486 (0.075)
 gap alpha = -0.917 (0.047)