

^{117}Cd $Z = 48$ $N = 69$ adopted link ENSDF link

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

BE = 993.210 (0.001) MeV

Qbeta- = 2.525 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
117CD 1	0.000	1/2+			1 2.49 H 4
117CD 2	0.135	3/2+			2 1 NS LE
117CD 3				0.136 (11/2)-	3 3.36 H 5
117CD 4				0.278 (9/2)-	4
117CD 5				0.292 (3/2+,5/2+)	5
117CD 6				0.294 (7/2)-	6 3.6 NS 2
117CD 7				0.338 (3/2)+	7
117CD 8				0.426 (3/2)+	8
117CD 9				0.443 3/2+,5/2+	9
117CD 10				0.498 (7/2)+	10 0.95 NS 7
117CD 11				0.509	11
117CD 12				0.522 (5/2)+	12
117CD 13				0.606 (5/2,7/2)-	13
117CD 14				0.639 (15/2-)	14
117CD 15	0.665	5/2+			15
117CD 16	0.691	5/2+			16
117CD 17				0.779	17
117CD 18				0.820 (5/2+)	18
117CD 19				0.863 (5/2+,7/2+)	19
117CD 20				0.980	20
117CD 21				1.073 (3/2-,5/2-)	21
117CD 22				1.080 (5/2+)	22
117CD 23				1.229 (1/2+)	23
117CD 24				1.277 (5/2+,7/2+)	24
117CD 25				1.352	25
117CD 26				1.356 (5/2+)	26
117CD 27				1.367 (19/2-)	27
117CD 28				1.476 (3/2+,5/2+)	28
117CD 29				1.609	29
117CD 30				1.679 (3/2+,5/2+)	30
117CD 31				1.784	31
117CD 32				1.943	32
117CD 33				1.995 (1/2-,3/2-)	33
117CD 34				2.013 (1/2-,3/2-)	34
117CD 35				2.131	35
117CD 36				2.192 (1/2-,3/2-)	36
117CD 37				2.199 (23/2-)	37

117CD 38				2.232		38
117CD 39				2.302	(1/2-,3/2-)	39
117CD 40				2.355		40

117CD 41				2.383	(3/2-)	41
117CD 42				2.443		42
117CD 43				2.514	(1/2-,3/2-)	43
117CD 44				2.555		44
117CD 45				2.574		45
117CD 46				2.641	(1/2-,3/2-)	46
117CD 47				2.787		47
117CD 48				2.888	(1/2-,3/2-)	48
117CD 49				2.925		49
117CD 50				2.937	(27/2-)	50

117CD 51				3.001	(1/2-,3/2-)	51
117CD 52				3.032	(3/2-)	52
117CD 53				3.064		53
117CD 54				3.158		54
117CD 55				3.644	(31/2-)	55
117CD 56				4.539	(35/2-)	56

S-p = 11.165 (0.003)-----
S-n = 5.777 (0.001)-----
S-2p = 20.570 (0.014)-----
S-2n = 14.477 (0.001)-----
S-alpha= 5.253 (0.007)-----

S+p = -8.099 (0.008)
S+n = -8.355 (0.020)
S+2p = -18.224 (0.001)
S+2n = -13.701 (0.038)
S+alpha = -5.203 (0.001)

gap p = 3.066 (0.009)
gap n = -2.577 (0.020)
gap 2p = 2.346 (0.014)
gap 2n = 0.775 (0.038)
gap alpha = 0.050 (0.007)