

$^{118}\text{Cd}$        $Z = 48$        $N = 70$       adopted link      ENSDF link

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

BE = 1001.565 ( 0.020) MeV

Qbeta- = 0.527 ( 0.021) MeV

	Energy T	J+	J-	J-other	T1/2
118CD 1	0.000	0+			1 50.3 M 2
118CD 2	0.488	2+			2 17.9 PS 15
118CD 3	1.165	4+			3 1.9 PS LT
118CD 4				1.269 (7-)	4
118CD 5	1.270	2+			5
118CD 6	1.286	0+			6 9.7 PS 14
118CD 7				1.460 (0+)	7
118CD 8	1.615	0+			8 7.1 PS LT
118CD 9	1.916	2+			9
118CD 10				1.929 (3,4+)	10
118CD 11			1.935 3-		11
118CD 12				1.936 (6+)	12
118CD 13	2.074	0+			13
118CD 14	2.092	3+			14
118CD 15				2.110	15
118CD 16				2.182	16
118CD 17				2.223 3,4,5	17
118CD 18				2.322 3,4+	18
118CD 19				2.395	19
118CD 20				2.472	20
118CD 21				2.575	21
118CD 22				2.591 (8+)	22
118CD 23				2.621	23
118CD 24				2.641	24
118CD 25				2.756	25
118CD 26				2.789 (1)	26
118CD 27				3.018 (10+)	27
118CD 28				3.032	28
118CD 29				3.182 2,3,4	29
118CD 30				3.224 (1)	30
118CD 31				3.266 2,3,4	31
118CD 32				3.329	32
118CD 33				3.382	33
118CD 34				3.579 (12+)	34
118CD 35				4.367 (14+)	35

S-p = 11.809 ( 0.024)-----  
S-n = 8.355 ( 0.020)-----  
S-2p = 21.449 ( 0.021)-----  
S-2n = 14.132 ( 0.020)-----  
S-alpha= 5.636 ( 0.021)-----

S+p = -8.286 ( 0.021)  
S+n = -5.347 ( 0.043)  
S+2p = -18.974 ( 0.020)  
S+2n = -13.398 ( 0.020)  
S+alpha = -5.663 ( 0.020)

gap p = 3.523 ( 0.032)  
gap n = 3.008 ( 0.047)  
gap 2p = 2.474 ( 0.029)  
gap 2n = 0.733 ( 0.029)  
gap alpha = -0.027 ( 0.029)