

$^{100}\text{Cd}$        $Z = 48$        $N = 52$       adopted link      ENSDF link

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

BE = 843.774 ( 0.002) MeV

Qbeta+ = 3.943 ( 0.005) MeV

	Energy T	J+	J-	J-other	T1/2
100CD 1	0.000	0+			1 49.1 S 5
S-alpha= 0.436 ( 0.005)-----					
100CD 2	1.004	2+			2 1.0 PS GT
100CD 3				1.799 (4+)	3
100CD 4				1.930 (2+)	4
100CD 5				2.046 (4+)	5
100CD 6				2.095 (6+)	6
100CD 7				2.458 (6+)	7
100CD 8				2.548 (8+)	8 62 NS 6
100CD 9				3.164 (4+,5,6+)	9
100CD 10				3.200 (8+)	10
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100CD 11				3.657 (10+)	11
100CD 12				4.119 (11+)	12
100CD 13				4.344 (12+)	13
S-p = 4.771 ( 0.006)-----					
100CD 14				4.855 (12)	14
100CD 15				5.319 (12)	15
100CD 16				5.508 (14)	16
100CD 17				6.259 (14)	17
100CD 18				6.460 (13)	18
100CD 19				6.953 (14)	19
100CD 20				6.978 (14)	20
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100CD 21				7.172 (15)	21
100CD 22				7.365 (14)	22
S-2p = 7.452 ( 0.005)-----					
100CD 23				7.748 (15)	23
100CD 24				7.911 (16)	24
100CD 25				8.349 (17)	25
100CD 26				8.560 (17)	26
100CD 27				8.823 (18)	27
100CD 28				8.947 (18)	28
100CD 29				9.388 (20)	29
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S-p	=	4.771	( 0.006)	-----	
S-n	=	12.335	( 0.002)	-----	
S-2p	=	7.452	( 0.005)	-----	
S-2n	=	22.701	( 0.052)	-----	

S-alpha= 0.436 ( 0.005)-----

S+p = -1.639 ( 0.012)

S+n = -9.713 ( 0.002)

S+2p = -5.318 ( 0.100)

S+2n = -21.608 ( 0.002)

S+alpha = 0.143 ( 0.006)

gap p = 3.132 ( 0.013)

gap n = 2.622 ( 0.003)

gap 2p = 2.133 ( 0.100)

gap 2n = 1.093 ( 0.052)

gap alpha = 0.579 ( 0.007)