

^{105}Cd $Z = 48$ $N = 57$ adopted link ENSDF link

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

BE = 894.270 (0.001) MeV

Qbeta+ = 2.737 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
105CD 1	0.000	5/2+			1 55.5 M 4
105CD 2	0.131	7/2+			2 1.75 NS 11
105CD 3				0.196 (5/2+)	3
105CD 4				0.260 (7/2+)	4
105CD 5				0.604 (7/2+)	5
105CD 6				0.679 (3/2+,5/2+)	6
105CD 7				0.766 (5/2+)	7
105CD 8	0.771	9/2+			8
105CD 9	0.800	11/2+			9
105CD 10	0.833	9/2+			10
105CD 11				1.115 (9/2+)	11
105CD 12				1.140 (7/2+)	12
105CD 13				1.163 (11/2)-	13
105CD 14				1.182 (3/2+:9/2+)	14
S-alpha=	1.327 (0.005)				
105CD 15				1.328 (5/2+)	15
105CD 16				1.387 (7/2+,9/2+)	16
105CD 17				1.440 (9/2+)	17
105CD 18				1.495 (7/2+,9/2+)	18
105CD 19				1.579 (13/2)+	19
105CD 20				1.579 (9/2+)	20
105CD 21				1.609 (5/2+,7/2,9/2+)	21
105CD 22				1.626 (7/2+,9/2+)	22
105CD 23				1.635 (5/2+)	23
105CD 24	1.686	15/2+			24
105CD 25				1.702 (15/2)-	25
105CD 26				1.729 (7/2+,9/2+)	26
105CD 27				1.823 (7/2+,9/2+,11/2+)	27)
105CD 28				2.060 (7/2+,9/2+,11/2)	28+)
105CD 29				2.143 (7/2+,9/2+)	29
105CD 30				2.194 (7/2+,9/2+)	30
105CD 31				2.278 (7/2+,9/2+,11/2+)	31)
105CD 32				2.308 (7/2+,9/2+,11/2+)	32)
105CD 33				2.365 (7/2+,9/2+)	33
105CD 34				2.372 (7/2+,9/2+)	34
105CD 35				2.391 (17/2)+	35
105CD 36				2.420 (7/2+,9/2+)	36

105CD	37				2.488	(19/2)-	37
105CD	38				2.518	(21/2+)	38
105CD	39				2.552	(7/2+,9/2+,11/2+	39)
105CD	40				2.588	(19/2)+	40

105CD	41				2.644		41
105CD	42				2.677	(7/2+,9/2+)	42
105CD	43				2.730		43
105CD	44				2.854	(7/2+,9/2+)	44
105CD	45		2.978	17/2+			45
105CD	46				3.165	(7/2+,9/2+)	46
105CD	47				3.203	(9/2+)	47
105CD	48				3.338	(7/2+,9/2+,11/2+	48)
105CD	49				3.343	(23/2)-	49
105CD	50		3.385	21/2+			50

105CD	51				3.622	(23/2+)	51
105CD	52			3.774	23/2-		52
105CD	53				4.098	(15/2-:23/2-)	53
105CD	54		4.193	25/2+			54
105CD	55				4.248	(27/2-)	55
105CD	56				4.525		56
105CD	57			4.600	27/2-		57
105CD	58				4.809	(27/2+)	58
105CD	59				4.914	(21/2+:27/2+)	59
105CD	60				5.011	(23/2,25/2,27/2	60-)

105CD	61		5.187	29/2+			61
105CD	62				5.225	(29/2-)	62
105CD	63			5.257	27/2-		63
105CD	64				5.291	(31/2)-	64
105CD	65			5.658	31/2-		65
105CD	66				5.758	(29/2-)	66
105CD	67			6.235	31/2-		67
105CD	68		6.294	33/2+			68
105CD	69				6.304	(33/2-)	69
105CD	70				6.471	(35/2)-	70

S-p	=	6.506	(0.004)	-----			
105CD	71				6.645	(33/2-)	71
105CD	72				6.703	(31/2,33/2,35/2	72-)
105CD	73				6.783	(35/2-)	73
105CD	74				7.297	(31/2,33/2,35/2-	74)
105CD	75		7.313	35/2-			75
105CD	76				7.447	(31/2,33/2,35/2-	76)
105CD	77				7.506	(37/2+)	77
105CD	78				7.536	(37/2-)	78
105CD	79				7.645	(37/2-)	79
105CD	80				7.801	(39/2-)	80

105CD	81				8.110	(35/2,37/2,39/2-	81)
105CD	82				8.434	(35/2,37/2,39/2-	82)
S-n	=	8.437	(0.002)	-----			
105CD	83			8.546	39/2-		83
105CD	84				8.638	(35/2,37/2,39/2-	84)
105CD	85				8.759	(41/2-	85
105CD	86				8.980	(41/2-	86
105CD	87				9.267	(43/2-	87
105CD	88				9.976	(43/2-	88

S-p = 6.506 (0.004)-----
S-n = 8.437 (0.002)-----
S-2p = 11.455 (0.002)-----
S-2n = 19.825 (0.002)-----
S-alpha= 1.327 (0.005)-----

S+p = -3.563 (0.012)
S+n = -10.870 (0.002)
S+2p = -8.756 (0.005)
S+2n = -18.799 (0.002)
S+alpha = -0.721 (0.008)

gap p = 2.943 (0.013)
gap n = -2.433 (0.003)
gap 2p = 2.699 (0.006)
gap 2n = 1.026 (0.003)
gap alpha = 0.605 (0.009)