

^{111}Cd $Z = 48$ $N = 63$ adopted link ENSDF link

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

BE = 947.616 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
111CD 1	0.000	1/2+			1 STABLE
111CD 2	0.245	5/2+			2 84.5 NS 4
111CD 3	0.342	3/2+			3 24 PS 3
111CD 4			0.396	11/2-	4 48.50 M 9
111CD 5	0.417	7/2+			5 0.12 NS 3
111CD 6	0.620	5/2+			6 9.7 PS
111CD 7				0.680 (9/2)-	7
111CD 8				0.700 (7/2+,9/2+)	8
111CD 9	0.705	7/2+			9
111CD 10				0.736 3/2+,5/2+	10 1 NS GT

111CD 11	0.753	5/2+			11
111CD 12	0.755	3/2+			12
111CD 13				0.831 (7/2-)	13
111CD 14	0.854	7/2+			14
111CD 15	0.856	3/2+			15
111CD 16	0.865	3/2+			16
111CD 17	0.867	3/2+			17 2.8 PS +7-4
111CD 18			0.968	15/2-	18
111CD 19	0.987	9/2+			19
111CD 20	1.017	3/2+			20

111CD 21	1.020	1/2+			21
111CD 22				1.047 (7/2+)	22
111CD 23				1.057	23
111CD 24	1.078	3/2+			24
111CD 25	1.116	3/2+			25 0.08 PS 4
111CD 26	1.118	7/2+			26
111CD 27				1.130	27 80 PS
111CD 28				1.151 (5/2+)	28
111CD 29	1.186	1/2+			29
111CD 30	1.190	3/2+			30

111CD 31	1.257	11/2+			31
111CD 32				1.275 (5/2+)	32
111CD 33				1.289	33
111CD 34				1.299	34
111CD 35				1.322	35
111CD 36	1.326	3/2+			36
111CD 37			1.327	5/2-	37
111CD 38				1.330	38 1 PS

111CD	39				1.340	(13/2-)	39
111CD	40				1.341	1/2,3/2	40

111CD	41				1.341	(5/2)	41
111CD	42				1.346		42
111CD	43	1.392	3/2+				43
111CD	44	1.473	3/2+				44
111CD	45				1.506	(9/2-)	45
111CD	46				1.512		46
111CD	47	1.546	3/2+				47
111CD	48	1.552	3/2+				48
111CD	49				1.552	(7/2+,9/2+)	49
111CD	50				1.566	(11/2-)	50

111CD	51				1.613		51
111CD	52				1.660	(1/2+)	52
111CD	53				1.666		53
111CD	54				1.683		54
111CD	55	1.692	3/2+				55
111CD	56				1.717	3/2+,5/2+	56
111CD	57	1.740	3/2+				57
111CD	58	1.789	3/2+				58
111CD	59				1.801	(7/2-)	59
111CD	60				1.827	9/2,11/2	60

111CD	61	1.829	3/2+				61
111CD	62				1.842	3/2,1/2	62
111CD	63				1.849		63
111CD	64			1.852	19/2-		64
111CD	65				1.860	3/2+,5/2+	65
111CD	66				1.895		66
111CD	67				1.907		67
111CD	68				1.921	(13/2+)	68
111CD	69				1.960		69
111CD	70			1.972	7/2-		70

111CD	71				1.975	3/2+,5/2+	71
111CD	72				1.993		72
111CD	73				2.006		73
111CD	74				2.016	3/2+,5/2+	74
111CD	75				2.039		75
111CD	76				2.045	(3/2+)	76
111CD	77				2.097	(5/2+,7/2+)	77
111CD	78				2.135	(1/2,3/2)	78
111CD	79				2.148	(17/2-)	79
111CD	80				2.154	(5/2+,7/2+)	80

111CD	81				2.166		81
111CD	82				2.196	(15/2+)	82
111CD	83				2.197		83

111CD 84				2.200		84
111CD 85				2.226		85
111CD 86				2.236		86
111CD 87				2.243		87
111CD 88				2.280	1/2+, 3/2+	88
111CD 89				2.311		89
111CD 90				2.326	1/2, 3/2	90

111CD 91				2.332		91
111CD 92				2.383		92
111CD 93				2.384		93
111CD 94				2.415		94
111CD 95				2.419		95
111CD 96				2.446		96
111CD 97				2.449		97
111CD 98				2.475		98
111CD 99				2.495		99
111CD 100				2.538		100

111CD 101				2.557		101
111CD 102				2.560		102
111CD 103				2.566		103
111CD 104				2.588		104
111CD 105				2.653		105
111CD 106				2.659		106
111CD 107				2.671		107
111CD 108				2.690		108
111CD 109				2.692		109
111CD 110				2.698		110

111CD 111				2.708		111
111CD 112				2.710		112
111CD 113				2.714		113
111CD 114				2.730		114
111CD 115				2.733		115
111CD 116				2.740	(19/2)	116
111CD 117				2.756		117
111CD 118				2.768		118
111CD 119				2.775		119
111CD 120				2.788		120

111CD 121				2.831		121
111CD 122		2.847	23/2-			122
111CD 123				2.858		123
111CD 124				2.860		124
111CD 125				2.951		125
111CD 126				2.978		126
111CD 127				3.039		127
111CD 128				3.059		128
111CD 129				3.076		129

111CD 130			3.101	130

111CD 131			3.113	131
111CD 132			3.126	132
111CD 133			3.131	133
111CD 134			3.147	134
111CD 135			3.173	135
111CD 136			3.185	136
111CD 137			3.207	137
111CD 138			3.230	138
111CD 139			3.246	139
111CD 140			3.259	140

111CD 141			3.302	141
S-alpha=	3.304	(0.001)	-----	
111CD 142			3.323	142
111CD 143			3.351	143
111CD 144			3.362	144
111CD 145			3.384	145
111CD 146			3.394	146
111CD 147			3.455	147
111CD 148			3.467	148
111CD 149			3.483	149
111CD 150			3.498	150

111CD 151			3.526	151
111CD 152			3.542	152
111CD 153			3.553	153
111CD 154			3.566	154
111CD 155			3.573	155
111CD 156			3.671	156
111CD 157			3.691	157
111CD 158			3.702	158
111CD 159			3.710	159
111CD 160			3.715	160

111CD 161			3.717	161
111CD 162			3.733	162
111CD 163			3.740	163
111CD 164			3.756	164
111CD 165	3.763	27/2-		165
111CD 166			3.781	166
111CD 167			3.801	167
111CD 168			3.828	168
111CD 169			3.856	169
111CD 170			3.900	170

111CD 171			3.921	171
111CD 172	4.556	31/2-		172
111CD 173	5.502	35/2-		173

111CD 174		6.649	39/2-	174
S-n = 6.976 (0.001)	-----			
111CD 175		7.951	43/2-	175
S-p = 9.084 (0.001)	-----			
111CD 176		9.407	47/2-	176

S-p = 9.084 (0.001)	-----			
S-n = 6.976 (0.001)	-----			
S-2p = 16.224 (0.001)	-----			
S-2n = 16.890 (0.002)	-----			
S-alpha = 3.304 (0.001)	-----			

S+p = -6.027 (0.004)
S+n = -9.394 (0.000)
S+2p = -13.654 (0.002)
S+2n = -15.934 (0.000)
S+alpha = -3.207 (0.000)

gap p = 3.057 (0.004)
gap n = -2.418 (0.001)
gap 2p = 2.570 (0.002)
gap 2n = 0.957 (0.002)
gap alpha = 0.098 (0.001)