

^{116}Cd $Z = 48$ $N = 68$ adopted link ENSDF link

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

BE = 987.433 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
116CD 1	0.000	0+			1 3.3E+19 Y 4
116CD 2	0.513	2+			2 14.1 PS 5
116CD 3	1.213	2+			3 1.9 PS 3
116CD 4	1.219	4+			4 1.7 PS 4
116CD 5	1.283	0+			5 65 PS 4
116CD 6	1.380	0+			6 1.15 PS 23
116CD 7	1.642	2+			7 0.50 PS +14-9
116CD 8	1.869	4+			8 0.24 PS +17-7
116CD 9	1.916	3+			9 0.49 PS +17-10
116CD 10			1.922 3-		10
116CD 11	1.928	0+			11
116CD 12	1.951	2+			12 0.56 PS +22-12
116CD 13	2.027	6+			13 0.44 PS +31-13
116CD 14	2.037	2+			14
116CD 15	2.042	4+			15
116CD 16				2.118 (2)+	16
116CD 17				2.189	17
116CD 18				2.195	18
116CD 19			2.249 5-		19
116CD 20			2.292 5-		20
116CD 21	2.292	2+			21
116CD 22				2.293	22
116CD 23				2.294 (2,3+)	23
116CD 24				2.296 +	24
116CD 25				2.303	25
116CD 26			2.340 4-		26
116CD 27	2.376	4+			27
116CD 28	2.377	3+			28
116CD 29				2.391 (2+,3)	29
116CD 30	2.435	2+			30
116CD 31			2.478 1-		31 0.0097 EV 6
116CD 32	2.488	1+			32 0.0021 EV 3
116CD 33				2.494	33
116CD 34				2.504 (5-)	34
116CD 35				2.517	35
116CD 36	2.559	2+			36
116CD 37	2.565	6+			37
116CD 38				2.572	38

116CD	39				2.605	2+,3,4+	39
116CD	40				2.628		40

116CD	41				2.648		41
116CD	42				2.654		42
116CD	43	2.659	1+				43 0.0045 EV 4
116CD	44				2.673		44
116CD	45				2.691	(5-)	45
116CD	46				2.693	(7-)	46
116CD	47				2.699	(5-)	47
116CD	48			2.720	1-		48
116CD	49				2.727		49
116CD	50				2.760	(1,2+)	50

116CD	51				2.762	1	51 0.0020 EV 5
116CD	52				2.765		52
116CD	53				2.780	(10+)	53
116CD	54	2.783	2+				54
116CD	55				2.786		55
116CD	56				2.803		56
116CD	57				2.810	1,2+	57
116CD	58				2.818		58
116CD	59				2.822		59
116CD	60	2.825	8+				60

116CD	61				2.828	(6-)	61
116CD	62			2.829	1-		62 0.0020 EV 5
116CD	63				2.837	(6+)	63
116CD	64	2.845	1+				64 0.0104 EV 10
116CD	65				2.862		65
116CD	66				2.866	(5-)	66
116CD	67	2.873	8+				67
116CD	68				2.878	(6-)	68
116CD	69				2.910		69
116CD	70				2.915		70

116CD	71				2.958	(6-)	71
116CD	72				2.973	(3-)	72
116CD	73				2.978		73
116CD	74				3.001		74
116CD	75				3.013	(5-,6-)	75
116CD	76				3.015		76
116CD	77	3.040	10+				77
116CD	78	3.050	4+				78
116CD	79	3.068	1+				79 0.0207 EV 10
116CD	80				3.088	(7-)	80

116CD	81				3.103		81
116CD	82			3.118	1-		82
116CD	83				3.125		83

116CD 84				3.130		84
116CD 85				3.138		85
116CD 86			3.156	1-		86 0.0052 EV 5
116CD 87				3.162		87
116CD 88				3.176		88
116CD 89				3.213		89
116CD 90				3.213	(6+)	90

116CD 91	3.217	2+				91
116CD 92				3.218		92
116CD 93				3.228		93
116CD 94				3.251		94
116CD 95				3.276		95
116CD 96				3.282	1	96 0.0009 EV 6
116CD 97				3.287		97
116CD 98				3.294		98
116CD 99				3.299		99
116CD 100				3.303		100

116CD 101				3.304		101
116CD 102				3.307		102
116CD 103			3.321	3-		103
116CD 104				3.340		104
116CD 105				3.348	(1,2+)	105
116CD 106				3.355		106
116CD 107				3.360		107
116CD 108				3.372		108
116CD 109				3.373		109
116CD 110				3.378		110

116CD 111				3.379		111
116CD 112				3.382	(9-)	112
116CD 113				3.388		113
116CD 114				3.399	(1,2+)	114
116CD 115				3.401	1	115 0.0017 EV 4
116CD 116	3.423	1+				116 0.0028 EV 5
116CD 117				3.433		117
116CD 118				3.471		118
116CD 119				3.472		119
116CD 120	3.483	4+				120

116CD 121				3.486		121
116CD 122				3.512		122
116CD 123				3.527		123
116CD 124				3.532		124
116CD 125				3.543		125
116CD 126				3.550		126
116CD 127				3.560		127
116CD 128	3.579	12+				128
116CD 129				3.595		129

116CD 130			3.601	1	130	0.0064	EV 6

116CD 131			3.633		131		
116CD 132			3.641	1	132	0.0013	EV 4
116CD 133			3.655	1	133	0.0068	EV 8
116CD 134			3.665		134		
116CD 135			3.675		135		
116CD 136			3.682		136		
116CD 137			3.708		137		
116CD 138			3.732	1	138	0.0067	EV 7
116CD 139			3.746		139		
116CD 140			3.747		140		

116CD 141			3.759		141		
116CD 142			3.763	1	142	0.0024	EV 7
116CD 143			3.782	1	143	0.0142	EV 10
116CD 144			3.794		144		
116CD 145			3.794		145		
116CD 146			3.806		146		
116CD 147			3.839		147		
116CD 148			3.842		148		
116CD 149			3.849	1	149	0.0086	EV 8
116CD 150			3.876	1	150	0.0056	EV 7

116CD 151			3.895	1	151	0.0273	EV 16
116CD 152			3.916	(1,2+)	152		
116CD 153			3.924		153		
116CD 154			3.943		154		
116CD 155			3.976	1	155	0.0044	EV 7
116CD 156			3.985		156		
116CD 157			3.997	1	157	0.0022	EV 7
116CD 158			4.010		158		
116CD 159			4.023		159		
116CD 160			4.027	1	160	0.0067	EV 9

116CD 161			4.058		161		
116CD 162			4.059	(11-)	162		
116CD 163			4.080		163		
116CD 164			4.084		164		
116CD 165			4.136		165		
116CD 166			4.177		166		
116CD 167			4.231		167		
116CD 168			4.247		168		
116CD 169			4.290		169		
116CD 170			4.378		170		

116CD 171			4.380	(14+)	171		
116CD 172			4.428		172		
116CD 173			4.432		173		
116CD 174			4.450		174		

116CD 175			4.476	175
116CD 176			4.539	176
116CD 177			4.562	177
116CD 178			4.575	178
116CD 179			4.591	179
116CD 180			4.615	180

116CD 181			4.632	181
116CD 182			4.643	182
116CD 183			4.647	183
116CD 184			4.653	184
116CD 185			4.689	185
116CD 186			4.698	186
116CD 187			4.755	187
116CD 188			4.773	188
116CD 189			4.787	189
S-alpha=	4.816	(0.007)	-----	
116CD 190			4.829	190

116CD 191			4.917	191
116CD 192			4.925	192
116CD 193			4.954	193
116CD 194			4.969	194

S-p = 11.019 (0.018)-----
S-n = 8.699 (0.001)-----
S-2p = 19.800 (0.007)-----
S-2n = 14.840 (0.000)-----
S-alpha= 4.816 (0.007)-----

S+p = -7.520 (0.005)
S+n = -5.777 (0.001)
S+2p = -17.518 (0.001)
S+2n = -14.132 (0.020)
S+alpha = -4.810 (0.001)

gap p = 3.499 (0.019)
gap n = 2.922 (0.001)
gap 2p = 2.282 (0.007)
gap 2n = 0.708 (0.020)
gap alpha = 0.006 (0.007)