

^{104}Cd $Z = 48$ $N = 56$ adopted link ENSDF link

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

BE = 885.833 (0.002) MeV

Qbeta+ = 1.148 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
104CD 1	0.000	0+			1 57.7 M 10
104CD 2	0.658	2+			2 6.3 PS 21
S-alpha= 1.181 (0.018)					
104CD 3	1.492	4+			3 4.2 PS LT
104CD 4				2.108	4
104CD 5				2.114 (4)+	5
104CD 6				2.296	6
104CD 7	2.370	6+			7 4.2 PS LT
104CD 8	2.435	6+			8 58 PS 4
104CD 9				2.492	9
104CD 10				2.539	10
104CD 11				2.607	11
104CD 12				2.614 (5)	12 27 PS 4
104CD 13				2.617	13
104CD 14				2.724	14
104CD 15				2.759	15
104CD 16				2.774	16
104CD 17				2.844 (5,6,7)	17
104CD 18				2.869	18
104CD 19	2.903	8+			19 0.8 NS +2-1
104CD 20				3.080	20
104CD 21				3.111	21
104CD 22				3.137	22
104CD 23				3.194 (5,6,7)	23
104CD 24	3.211	8+			24 4.9 PS LT
104CD 25				3.240	25
104CD 26				3.253	26
104CD 27	3.298	8+			27 1.04 PS 21
104CD 28				3.392	28
104CD 29				3.498	29
104CD 30				3.616 (5+,6+,7+)	30
104CD 31				3.653 (7)	31 11 PS LT
104CD 32				3.687	32
104CD 33			3.727 7-		33 6.9 PS 7
104CD 34				3.738	34
104CD 35	3.788	7+			35 17 PS LT
104CD 36				3.830	36

104CD	37						3.905	9(+)		37	104 PS	LT	
104CD	38						3.950	(5+,6+,7+)		38			
104CD	39				4.039	9-				39	10.4 PS	5	
104CD	40		4.102	10+						40	2.1 PS	14	

104CD	41						4.152			41			
104CD	42				4.155	8-				42			
104CD	43						4.254			43			
104CD	44						4.311			44			
104CD	45						4.329	(10+)		45			
104CD	46						4.397	(9)		46	6.2 PS	+7-14	
104CD	47						4.400	(5+,6+,7+)		47			
104CD	48						4.466	(10+)		48			
104CD	49						4.498			49			
104CD	50						4.518			50			

104CD	51						4.738	(12+)		51			
104CD	52				4.741	11-				52	3.60 PS	14	
104CD	53						4.800	(5+,6+,7+)		53			
104CD	54				4.810	10-				54	6.9 PS	7	
104CD	55		4.818	11+						55	55 PS	4	
104CD	56						5.147	(11)		56	4.2 PS	LT	
104CD	57		5.158	12+						57			
104CD	58						5.200	(5+,6+,7+)		58			
104CD	59						5.373	(14+)		59			
104CD	60						5.453	(12)		60	3.5 PS	LT	

104CD	61				5.573	12-				61	1.4 PS	LT	
104CD	62						5.600	(5+,6+,7+)		62			
104CD	63				5.672	13-				63	0.42 PS	21	
104CD	64		5.793	13+						64	2.1 PS	4	
104CD	65						5.925	(13)		65			
104CD	66						6.123	(14)		66			
104CD	67		6.241	14+						67			
104CD	68						6.242	(14)		68	0.76 PS	14	
104CD	69				6.329	14-				69	2.01 PS	14	
S-p	=	6.455 (0.004)-----											
104CD	70				6.662	15-				70	0.56 PS	6	

104CD	71						6.986	(15)		71			
104CD	72						7.009	(16)		72			
104CD	73						7.149	(15-)		73	1.2 PS	LT	
104CD	74						7.194	(14+)		74			
104CD	75				7.278	16-				75	1.04 PS	14	
104CD	76				7.782	17-				76	0.37 PS	4	
104CD	77						7.785	(16)		77			
104CD	78						8.143	(17-)		78			
104CD	79						8.165	(16+)		79			
104CD	80				8.437	18-				80	0.28 PS	4	

104CD	81				8.606	(18)		81
104CD	82				8.716	(18)		82
104CD	83		9.089	19-				83 0.52 PS LT
104CD	84				9.092	(18+)		84
104CD	85				9.140	(19)		85
104CD	86		9.294	19-				86
104CD	87				9.429	(19-)		87
104CD	88		9.688	20-				88 0.53 PS LT

S-p = 6.455 (0.004)-----
 S-n = 11.388 (0.002)-----
 S-2p = 10.643 (0.002)-----
 S-2n = 20.451 (0.002)-----
 S-alpha= 1.181 (0.018)-----

S+p = -2.961 (0.010)
 S+n = -8.437 (0.002)
 S+2p = -7.963 (0.005)
 S+2n = -19.306 (0.002)
 S+alpha = -0.526 (0.006)

gap p = 3.494 (0.011)
 gap n = 2.951 (0.003)
 gap 2p = 2.680 (0.006)
 gap 2n = 1.145 (0.003)
 gap alpha = 0.654 (0.019)