

$^{119}\text{Cd}$        $Z = 48$        $N = 71$       adopted link      ENSDF link

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

BE = 1006.911 ( 0.038) MeV

Qbeta- = 3.722 ( 0.038) MeV

	Energy T	J+	J-	J-other	T1/2	
119CD	1	0.000	1/2+		1	2.69 M 2
119CD	2	0.027	3/2+		2	2.3 NS 4
119CD	3			0.147 (11/2-)	3	2.20 M 2
119CD	4			0.214 (9/2-)	4	1.5 NS LE
119CD	5			0.228 (7/2-,9/2-)	5	43 NS 3
119CD	6			0.393 +	6	
119CD	7			0.399 (3/2-,5/2)	7	
119CD	8			0.427 (7/2+)	8	1.6 NS 1
119CD	9			0.525 (3/2-,5/2,7/2+)	9	
119CD	10			0.571 (5/2,7/2)	10	
119CD	11			0.656 (5/2,7/2)	11	
119CD	12			0.682 (15/2-)	12	
119CD	13			0.806 (5/2+,7/2+)	13	
119CD	14			0.866 (5/2,7/2,9/2)	14	
119CD	15			0.924 (5/2,7/2+)	15	
119CD	16			1.054 (5/2+,7/2+)	16	
119CD	17			1.087 (5/2,7/2+)	17	
119CD	18			1.131 (5/2,7/2+)	18	
119CD	19			1.279 (5/2+,7/2+)	19	
119CD	20			1.402 (5/2+,7/2+)	20	
119CD	21			1.432 (19/2-)	21	
119CD	22			1.539 (5/2,7/2+)	22	
119CD	23			1.926 (5/2+,7/2+)	23	
119CD	24			2.088 (5/2+,7/2+)	24	
119CD	25			2.327 (23/2-)	25	
119CD	26			2.424 (5/2+,7/2+,9/2+)	26	
119CD	27			2.443 (5/2+,7/2+)	27	
119CD	28			2.677 (5/2+,7/2+)	28	
119CD	29			2.813 (5/2+,7/2+)	29	
119CD	30			2.862 (5/2+,7/2+,9/2+)	30	
119CD	31			3.023 (27/2-)	31	
119CD	32			3.338	32	
119CD	33			3.988	33	

S-p = 11.712 ( 0.038)

S-n = 5.347 ( 0.043)

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S-2p = 22.131 ( 0.038)-----  
S-2n = 13.701 ( 0.038)-----  
S-alpha= 5.976 ( 0.040)-----  
  
S+p = -9.040 ( 0.055)  
S+n = -8.052 ( 0.038)  
S+2p = -19.798 ( 0.038)  
S+2n = -13.239 ( 0.038)  
S+alpha = -6.263 ( 0.038)  
  
gap p = 2.672 ( 0.067)  
gap n = -2.705 ( 0.057)  
gap 2p = 2.334 ( 0.054)  
gap 2n = 0.462 ( 0.053)  
gap alpha = -0.287 ( 0.055)
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