

^{179}Lu $Z = 71$ $N = 108$ adopted link ENSDF link

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

BE = 1438.278 (0.005) MeV

Qbeta- = 1.404 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-0.827	(0.050)	-----		
179LU 1	0.000	7/2+			1 4.59 H 6
179LU 2				0.035 (9/2-)	2
179LU 3				0.123 (9/2+)	3
179LU 4				0.186 (11/2)-	4
179LU 5				0.273 (11/2+)	5
179LU 6				0.357 (13/2-)	6
179LU 7	0.592	1/2+			7 3.1 MS 9
179LU 8				0.593 (3/2+)	8
179LU 9				0.653 (5/2+)	9
179LU 10				0.735 (5/2+)&(7/2+)	10

179LU 11				0.872 (9/2+)	11
179LU 12				0.917 (1/2,3/2,5/2+)	12
179LU 13				0.987 (9/2+)	13
179LU 14				1.064 (1/2+,3/2)	14
179LU 15				1.099	15
179LU 16				1.126 (3/2+)	16
179LU 17				1.189 (5/2+)	17
179LU 18				1.205 (1/2-,3/2-)	18
179LU 19				1.262	19
179LU 20				1.292	20

179LU 21				1.354	21
179LU 22				1.412	22
179LU 23				1.473 (11/2)-	23
179LU 24				1.556 (1/2-,3/2-)	24
179LU 25				1.586 (1/2-,3/2-)	25
179LU 26				1.599 9/2-,11/2-	26
179LU 27				1.679	27
179LU 28				1.771	28
179LU 29				1.820	29
179LU 30				2.048	30

179LU 31				2.115	31
179LU 32				2.136	32
179LU 33				2.216	33
179LU 34				2.239	34
179LU 35				2.336	35

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S-p    =  6.671 ( 0.008)-----
S-n    =  6.792 ( 0.006)-----
S-2p   = 16.083 ( 0.177)-----
S-2n   = 12.818 ( 0.005)-----
S-alpha= -0.827 ( 0.050)-----

S+p    = -8.010 ( 0.005)
S+n    = -5.689 ( 0.071)
S+2p   = -13.958 ( 0.005)
S+2n   = -11.881 ( 0.126)
S+alpha =  1.340 ( 0.005)

gap p   = -1.339 ( 0.010)
gap n   =  1.103 ( 0.071)
gap 2p  =  2.125 ( 0.177)
gap 2n  =  0.936 ( 0.126)
gap alpha =  0.514 ( 0.051)
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