

^{173}Lu $Z = 71$ $N = 102$ adopted link ENSDF link

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

BE = 1397.672 (0.002) MeV

Qbeta+ = 0.670 (0.002) MeV

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

S-alpha=	-1.969	(0.002)	-----		
173LU 1	0.000	7/2+			1 1.37 Y 1
173LU 2				0.117 (9/2+)	2
173LU 3			0.124 5/2-		3 74.2 US 10
173LU 4			0.128 1/2-		4 5.2 NS 5
173LU 5				0.198 (9/2)-	5
173LU 6				0.259 (11/2+)	6
173LU 7			0.263 3/2-		7 0.16 NS LE
173LU 8	0.357	5/2+			8 383 PS 19
173LU 9				0.359 (13/2-)	9
173LU 10				0.424 (13/2+)	10

173LU 11	0.425	1/2+			11 0.84 NS 20
173LU 12				0.428 (7/2-)	12
173LU 13	0.435	3/2+			13 0.38 NS 10
173LU 14				0.449 (9/2-)	14 0.58 NS 12
173LU 15				0.451 (7/2+)	15
173LU 16				0.552 (5/2+)	16
173LU 17				0.571 (9/2+)	17
173LU 18				0.576 (7/2+)	18
173LU 19				0.580 (11/2)-	19
173LU 20				0.607 (17/2-)	20

173LU 21				0.611 (15/2+)	21
173LU 22				0.654 (11/2-)	22
173LU 23				0.715 (11/2+)	23
173LU 24				0.722 (1/2+)	24
173LU 25				0.735 (13/2-)	25
173LU 26				0.735 (7/2-)	26
173LU 27				0.778 (9/2+)	27
173LU 28				0.820 (11/2+)	28
173LU 29				0.821 (17/2+)	29
173LU 30				0.884 (13/2+)	30

173LU 31				0.889 (3/2)-	31
173LU 32				0.912 (15/2-)	32
173LU 33				0.942 (21/2-)	33
173LU 34				0.949 (15/2-)	34
173LU 35				0.958 (5/2-)	35
173LU 36	0.975	3/2+			36

173LU	37	0.982	1/2+					37
173LU	38	1.003	3/2+					38
173LU	39					1.047		39
173LU	40					1.051	(19/2+)	40

173LU	41					1.075	(15/2+)	41
173LU	42					1.092	(13/2+)	42
173LU	43					1.097	(1/2,3/2)	43
173LU	44					1.112	(17/2-)	44
173LU	45					1.130	(1/2-,3/2)	45
173LU	46					1.151	(9/2)-	46
173LU	47					1.155	(15/2+)	47
173LU	48			1.162	3/2-			48
173LU	49					1.193	(1/2-)	49
173LU	50	1.247	1/2+					50

173LU	51					1.275	(7/2)-	51
173LU	52					1.287	(17/2+)	52
173LU	53					1.296		53
173LU	54					1.302	(21/2+)	54
173LU	55					1.316	(19/2-)	55
173LU	56					1.333	(19/2-)	56
173LU	57			1.334	3/2-			57
173LU	58					1.359	(3/2+)	58
173LU	59					1.361	(25/2-)	59
173LU	60					1.375		60

173LU	61					1.409	(1/2+)	61
173LU	62					1.475	(17/2+)	62
173LU	63					1.516		63
173LU	64					1.521	(19/2+)	64
173LU	65					1.574	(23/2+)	65
173LU	66					1.575	(21/2-)	66
173LU	67					1.579	(1/2+)	67
173LU	68					1.714		68
173LU	69					1.744	(1/2+)	69
173LU	70					1.768		70

173LU	71					1.787		71
173LU	72					1.837	(23/2-)	72
173LU	73					1.860		73
173LU	74					1.940		74
173LU	75					1.982		75
173LU	76					2.024		76
173LU	77					2.053		77
173LU	78					2.092		78
173LU	79					2.140		79
173LU	80					2.218		80

173LU	81					2.248		81

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S-p    =  4.914 ( 0.002)-----  
S-n    =  8.216 ( 0.003)-----  
S-2p   = 12.249 ( 0.002)-----  
S-2n   = 15.195 ( 0.002)-----  
S-alpha= -1.969 ( 0.002)-----  
  
S+p    = -6.253 ( 0.003)  
S+n    = -6.761 ( 0.002)  
S+2p   = -10.106 ( 0.028)  
S+2n   = -14.427 ( 0.002)  
S+alpha =  2.741 ( 0.004)  
  
gap p   = -1.338 ( 0.003)  
gap n   =  1.456 ( 0.004)  
gap 2p  =  2.143 ( 0.028)  
gap 2n  =  0.768 ( 0.003)  
gap alpha =  0.772 ( 0.004)
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