

^{169}Lu $Z = 71$ $N = 98$ adopted link ENSDF link

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

BE = 1366.589 (0.003) MeV

Qbeta+ = 2.293 (0.003) MeV

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

S-alpha=	-2.422	(0.003)	-----		
169LU 1	0.000	7/2+			1 34.06 H 5
169LU 2			0.029	1/2-	2 160 S 10
169LU 3				0.043 (5/2-)	3
169LU 4				0.097 (1/2+)	4
169LU 5				0.114 (3/2+)	5
169LU 6				0.123 (9/2+)	6
169LU 7				0.141 (9/2-)	7
169LU 8				0.157 (3/2-)	8
169LU 9				0.186 (5/2+)	9
169LU 10				0.225 (5/2+)	10

169LU 11				0.261 (7/2+)	11
169LU 12				0.271 (11/2+)	12
169LU 13				0.288 (7/2+)	13
169LU 14				0.328 (7/2-)	14
169LU 15				0.330 (13/2-)	15
169LU 16				0.414 (9/2+)	16
169LU 17				0.439 (9/2-)	17
169LU 18				0.440 (13/2+)	18
169LU 19				0.449 (9/2+)	19
169LU 20			0.493	7/2-	20

169LU 21				0.508 (11/2+)	21
169LU 22				0.546 (11/2-)	22
169LU 23				0.568 (11/2+)	23
169LU 24				0.576 (11/2-)	24
169LU 25				0.611 (17/2-)	25
169LU 26				0.629 (15/2+)	26
169LU 27				0.683 (13/2-)	27
169LU 28				0.733 (13/2+)	28
169LU 29				0.763 (13/2+)	29
169LU 30				0.836 (17/2+)	30

169LU 31				0.842 (15/2+)	31
169LU 32				0.845 (15/2-)	32
169LU 33				0.896 (15/2-)	33
169LU 34				0.937 (15/2+)	34
169LU 35				0.978 (21/2-)	35
169LU 36				1.032 (17/2-)	36

169LU 37				1.060	(19/2+)	37
169LU 38				1.117	(17/2+)	38
169LU 39				1.151	(17/2+)	39
169LU 40				1.235	(19/2-)	40

169LU 41				1.244	(19/2+)	41
169LU 42				1.289	(19/2-)	42
169LU 43				1.298	(21/2+)	43
169LU 44				1.423	(25/2-)	44
169LU 45				1.462	(21/2-)	45
169LU 46				1.549	(23/2+)	46
169LU 47				1.550	(21/2+)	47
169LU 48				1.697	(23/2-)	48
169LU 49				1.698	(23/2+)	49
169LU 50				1.747	(23/2-)	50

169LU 51				1.810	(25/2+)	51
169LU 52				1.936	(29/2-)	52
169LU 53				1.956	(25/2-)	53
169LU 54				2.027	(25/2+)	54
169LU 55				2.081	(27/2+)	55
169LU 56				2.197	(27/2+)	56
169LU 57				2.215	(27/2-)	57
169LU 58				2.260	(27/2-)	58
169LU 59				2.358	(29/2+)	59
169LU 60				2.496	(29/2-)	60

169LU 61				2.506	(33/2-)	61
169LU 62				2.542	(29/2+)	62
169LU 63				2.644	(31/2+)	63
169LU 64				2.740	(31/2+)	64
169LU 65				2.772	(31/2-)	65
169LU 66				2.931	(33/2+)	66
169LU 67				3.066	(33/2-)	67
169LU 68				3.091	(33/2+)	68
169LU 69				3.124	(37/2-)	69
169LU 70				3.231	(35/2+)	70

169LU 71				3.328	(35/2+)	71
169LU 72				3.352	(35/2-)	72
169LU 73				3.529	(37/2+)	73
169LU 74				3.648	(37/2-)	74
169LU 75				3.672	(37/2+)	75
169LU 76				3.789	(41/2-)	76

S-p	=	3.792	(0.003)			

169LU 77				3.844	(39/2+)	77
169LU 78				3.937	(39/2-)	78
169LU 79				3.963	(39/2+)	79
169LU 80				4.157	(41/2+)	80

169LU 81				4.241	(41/2-)	81
169LU 82				4.293	(41/2+)	82
169LU 83				4.496	(43/2+)	83
169LU 84				4.502	(45/2-)	84
169LU 85				4.543	(43/2-)	85
169LU 86				4.643	(43/2+)	86
169LU 87				4.837	(45/2+)	87
169LU 88				4.880	(45/2-)	88
169LU 89				4.963	(45/2+)	89
169LU 90				5.204	(47/2+)	90

169LU 91				5.204	(47/2-)	91
169LU 92				5.269	(49/2-)	92
169LU 93				5.370	(47/2+)	93
169LU 94				5.579	(49/2+)	94
169LU 95				5.689	(49/2+)	95
169LU 96				5.976	(51/2+)	96
169LU 97				6.091	(53/2-)	97
169LU 98				6.127	(51/2+)	98
169LU 99				6.383	(53/2+)	99
169LU 100				6.903	(55/2+)	100

169LU 101				6.963	(57/2-)	101

S-p = 3.792 (0.003)-----
S-n = 9.081 (0.038)-----
S-2p = 10.117 (0.003)-----
S-2n = 16.699 (0.037)-----
S-alpha= -2.422 (0.003)-----

S+p = -5.460 (0.028)
S+n = -7.295 (0.017)
S+2p = -8.216 (0.028)
S+2n = -15.889 (0.004)
S+alpha = 3.261 (0.028)

gap p = -1.669 (0.028)
gap n = 1.786 (0.042)
gap 2p = 1.902 (0.028)
gap 2n = 0.810 (0.038)
gap alpha = 0.839 (0.028)