

^{166}Lu $Z = 71$ $N = 95$ adopted link ENSDF link

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

BE = 1340.313 (0.030) MeV

Qbeta+ = 5.573 (0.031) MeV

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

S-alpha=	-3.032	(0.040)	-----		
166LU 1			0.000 6-		1 2.65 M 10
166LU 2				0.034 3(-)	2 1.41 M 10
166LU 3			0.043 0-		3 2.12 M 10
166LU 4				0.057 (1)-	4
166LU 5				0.060 (3+)	5
166LU 6				0.083 (5,6,7)+	6 92 NS 7
166LU 7	0.136	1+			7
166LU 8				0.145 (6,7,8)-	8
166LU 9				0.190 (7)+	9
166LU 10				0.196 J	10

166LU 11				0.287 (8)-	11
166LU 12				0.290 (8+)	12
166LU 13				0.303 (+)	13
166LU 14				0.336 J+2	14
166LU 15				0.341 (9-)	15
166LU 16				0.341 1	16
166LU 17				0.358 (8-)	17
166LU 18				0.399 1(+)	18
166LU 19				0.426 (9+)	19
166LU 20				0.427 (10-)	20

166LU 21				0.435 1(+)	21
166LU 22				0.505 (9-)	22
166LU 23				0.539 (11-)	23
166LU 24	0.544	1+			24
166LU 25				0.587 (10-)	25
166LU 26				0.591 (10+)	26
166LU 27				0.592 J+4	27
166LU 28				0.695 (12-)	28
166LU 29				0.786 (11-)	29
166LU 30				0.787 (11+)	30

166LU 31				0.868 (13-)	31
166LU 32				0.907 (12-)	32
166LU 33				0.962 J+6	33
166LU 34				1.005 (12+)	34
166LU 35				1.084 (14-)	35
166LU 36				1.146 (13-)	36

166LU 37				1.250	(13+)	37
166LU 38				1.313	(15-)	38
166LU 39				1.324	(14-)	39
166LU 40				1.433	J+8	40

166LU 41				1.512	(14+)	41
166LU 42				1.575	(16-)	42
166LU 43				1.589	(15-)	43
166LU 44				1.799	(15+)	44
166LU 45				1.834	(16-)	45
166LU 46				1.857	(17-)	46
166LU 47				1.991	J+10	47
166LU 48				2.096	(16+)	48
166LU 49				2.112	(17-)	49
166LU 50				2.152	(18-)	50

166LU 51				2.417	(17+)	51
166LU 52				2.431	(18-)	52
166LU 53				2.483	(19-)	53
166LU 54				2.616	J+12	54
166LU 55				2.710	(19-)	55
166LU 56				2.739	(18+)	56
166LU 57				2.800	(20-)	57

S-p	=	3.015	(0.040)	-----		
166LU 58				3.070	(19+)	58
166LU 59				3.099	(20-)	59
166LU 60				3.173	(21-)	60

166LU 61				3.286	J+14	61
166LU 62				3.376	(21-)	62
166LU 63				3.431	(20+)	63
166LU 64				3.500	(22-)	64
166LU 65				3.774	(21+)	65
166LU 66				3.819	(22-)	66
166LU 67				3.892	(23-)	67
166LU 68				3.975	(J+16)	68
166LU 69				4.104	(23-)	69
166LU 70				4.167	(22+)	70

166LU 71				4.249	(24-)	71
166LU 72				4.521	(23+)	72
166LU 73				4.592	(24-)	73
166LU 74				4.673	(25-)	74

S-p = 3.015 (0.040)-----
S-n = 7.650 (0.040)-----
S-2p = 8.690 (0.039)-----
S-2n = 17.521 (0.041)-----
S-alpha= -3.032 (0.040)-----

S+p = -4.736 (0.041)
S+n = -9.577 (0.048)
S+2p = -6.951 (0.041)
S+2n = -17.194 (0.048)
S+alpha = 3.458 (0.041)

gap p = -1.721 (0.057)
gap n = -1.927 (0.062)
gap 2p = 1.739 (0.056)
gap 2n = 0.327 (0.063)
gap alpha = 0.427 (0.057)