

^{147}La $Z = 57$ $N = 90$ adopted link ENSDF link

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

BE = 1208.568 (0.011) MeV

Qbeta- = 5.335 (0.014) MeV

	Energy T	J+	J-	J-other	T1/2	
147LA 1				0.000 (5/2+)	1	4.06 S 4
147LA 2				0.016 (3/2+)	2	
147LA 3				0.074 (7/2+)	3	3 NS
147LA 4				0.121 (5/2+)	4	1.4 NS
147LA 5				0.168 (7/2-)	5	2.4 NS 11
147LA 6				0.212 (7/2+)	6	
147LA 7				0.229 (11/2-)	7	10.2 NS 9
147LA 8				0.233 (9/2+)	8	
147LA 9				0.252	9	
147LA 10				0.265 (5/2-)	10	0.3 NS

147LA 11				0.279	11	
147LA 12				0.308	12	
147LA 13				0.318	13	
147LA 14				0.343	14	
147LA 15				0.363	15	
147LA 16				0.372 (11/2+)	16	
147LA 17				0.379	17	
147LA 18				0.380	18	
147LA 19				0.420	19	
147LA 20				0.440	20	

147LA 21				0.442 (15/2-)	21	
147LA 22				0.474	22	
147LA 23				0.477 (-)	23	
147LA 24				0.493	24	
147LA 25				0.511	25	
147LA 26				0.523	26	
147LA 27				0.542	27	
147LA 28				0.589 (13/2+)	28	
147LA 29				0.603	29	
147LA 30				0.611 (13/2-)	30	

147LA 31				0.620	31	
147LA 32				0.697 (13/2+)	32	
147LA 33				0.703	33	
147LA 34				0.734	34	
147LA 35				0.766	35	
147LA 36				0.778	36	
147LA 37				0.786 (15/2+)	37	

147LA 38				0.788	(19/2-)	38
147LA 39				0.810		39
147LA 40				0.826		40

147LA 41				0.837		41
147LA 42				0.845		42
147LA 43				0.856		43
147LA 44				0.866		44
147LA 45				0.911		45
147LA 46				0.920		46
147LA 47				0.954		47
147LA 48				0.954	(17/2-)	48
147LA 49				0.964		49
147LA 50				0.997		50

147LA 51				1.015		51
147LA 52				1.017		52
147LA 53				1.022		53
147LA 54				1.031	(17/2+)	54
147LA 55				1.110		55
147LA 56				1.120		56
147LA 57				1.159		57
147LA 58				1.190		58
147LA 59				1.190		59
147LA 60				1.208	(19/2+)	60

147LA 61				1.242	(23/2-)	61
147LA 62				1.243		62
147LA 63				1.276		63
147LA 64				1.300		64
147LA 65				1.301		65
147LA 66				1.347		66
147LA 67				1.358	(21/2+)	67
147LA 68				1.384		68
147LA 69				1.391	(21/2-)	69
147LA 70				1.416		70

S-alpha= 1.428 (0.013)-----						
147LA 71				1.502		71
147LA 72				1.533		72
147LA 73				1.553		73
147LA 74				1.557		74
147LA 75				1.569		75
147LA 76				1.589		76
147LA 77				1.589	(23/2+)	77
147LA 78				1.618		78
147LA 79				1.619		79
147LA 80				1.648		80

147LA 81				1.661		81

147LA 82				1.672		82
147LA 83				1.701		83
147LA 84				1.715		84
147LA 85				1.730	(25/2+)	85
147LA 86				1.742		86
147LA 87				1.758		87
147LA 88				1.766		88
147LA 89				1.771	(27/2-)	89
147LA 90				1.777		90

147LA 91				1.795		91
147LA 92				1.884		92
147LA 93				1.895	(25/2-)	93
147LA 94				1.949		94
147LA 95				1.964	(27/2+)	95
147LA 96				2.116	(29/2+)	96
147LA 97				2.309	(31/2-)	97
147LA 98				2.311	(31/2+)	98
147LA 99				2.427		99
147LA 100				2.519	(33/2+)	100

147LA 101				2.732	(35/2+)	101
147LA 102				2.753	(35/2-)	102
147LA 103				2.990	(37/2+)	103
147LA 104				3.176	(39/2-)	104
147LA 105				3.549	(41/2+)	105
147LA 106				3.676	(43/2-)	106
147LA 107				4.267	(47/2-)	107

S-p = 9.101 (0.011)-----
S-n = 5.528 (0.011)-----
S-2p = 21.202 (0.014)-----
S-2n = 9.986 (0.016)-----
S-alpha= 1.428 (0.013)-----

S+p = -11.009 (0.015)
S+n = -4.102 (0.022)
S+2p = -18.939 (0.015)
S+2n = -9.684 (0.201)
S+alpha = -2.526 (0.016)

gap p = -1.908 (0.019)
gap n = 1.427 (0.025)
gap 2p = 2.263 (0.020)
gap 2n = 0.302 (0.201)
gap alpha = -1.099 (0.021)