

$^{174}\text{Lu}$        $Z = 71$        $N = 103$       adopted link      ENSDF link

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

BE      =    1404.433 ( 0.002) MeV  
 Qbeta- =      0.274 ( 0.003) MeV  
 Qbeta+ =      1.374 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-1.800 ( 0.002)				
174LU 1				0.000 (1)-	1 3.31 Y 5
174LU 2				0.045 (2)-	2
174LU 3				0.112 (3)-	3
174LU 4				0.171 (6)-	4 142 D 2
174LU 5				0.200 (4-)	5
174LU 6				0.241 (3+)	6 395 NS 15
174LU 7				0.260 (4+)	7
174LU 8				0.281 (0+)	8
174LU 9				0.302 (5+)	9
174LU 10				0.311 (5-)	10
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174LU 11				0.320 (2+)	11
174LU 12		0.320	7-		12
174LU 13				0.365 (4-)	13 145 NS 3
174LU 14				0.368 (6+)	14
174LU 15				0.383 (1+)	15
174LU 16				0.414 (3+)	16
174LU 17				0.421 (4+)	17
174LU 18				0.431 (7+)	18 1.5 NS LT
174LU 19				0.433 (3-)	19
174LU 20				0.442 (6-)	20
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174LU 21				0.445 (3+)	21
174LU 22				0.454 (7+)	22
174LU 23				0.456 (5-)	23
174LU 24				0.481 (5-)	24
174LU 25				0.491 (8-)	25
174LU 26				0.506	26
174LU 27				0.508	27
174LU 28				0.516	28
174LU 29				0.522 (1-)	29
174LU 30		0.523	7-		30
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174LU 31				0.527	31
174LU 32				0.531 (4-)	32
174LU 33				0.531 (7+)	33
174LU 34				0.537 (8+)	34
174LU 35				0.553	35

174LU 36				0.561	(8+)	36
174LU 37				0.568		37
174LU 38				0.576	(5+)	38
174LU 39				0.591	(6-)	39
174LU 40				0.594	(6+)	40
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174LU 41				0.596	(7-)	41
174LU 42				0.602		42
174LU 43				0.619	(6-)	43
174LU 44				0.620	(3-)	44
174LU 45				0.621	(2-)	45
174LU 46				0.630	(1+)	46
174LU 47				0.635	(2+)	47
174LU 48				0.640		48
174LU 49				0.652	(2,3,4)	49
174LU 50				0.654	(5-)	50
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174LU 51				0.659	(8+)	51
174LU 52				0.672	(4+)	52
174LU 53				0.677	(9+)	53
174LU 54				0.683	(9-)	54
174LU 55				0.689	(3+)	55
174LU 56				0.689	(9+)	56
174LU 57				0.715		57
174LU 58				0.723		58
174LU 59				0.735		59
174LU 60				0.748	(7-)	60
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174LU 61				0.755	(5+)	61
174LU 62				0.766	(8-)	62
174LU 63				0.772	(8)	63
174LU 64				0.774	(4+)	64
174LU 65				0.779	(7-)	65
174LU 66				0.782	(7+)	66
174LU 67				0.801	(6-)	67
174LU 68				0.806	(9+)	68
174LU 69				0.838	(10+)	69
174LU 70				0.843	(8+)	70
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174LU 71				0.843	(10+)	71
174LU 72				0.860	(6+)	72
174LU 73				0.869	(9)	73
174LU 74				0.877	(7-)	74
174LU 75				0.878	(5+)	75
174LU 76				0.895	(10-)	76
174LU 77				0.906		77
174LU 78				0.927	(8-)	78
174LU 79				0.953		79
174LU 80				0.961	(8-)	80
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174LU 81			0.961	(9-)	81
174LU 82			0.970	(7-)	82
174LU 83			0.980	(7+)	83
174LU 84			0.998		84
174LU 85			1.005	(6+)	85
174LU 86			1.007	(11+)	86
174LU 87			1.012		87
174LU 88			1.013	(10)	88
174LU 89			1.028		89
174LU 90			1.034	(11+)	90
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174LU 91			1.063	(9+)	91
174LU 92			1.071		92
174LU 93			1.085		93
174LU 94			1.112		94
174LU 95			1.126	(11-)	95
174LU 96			1.140		96
174LU 97			1.156		97
174LU 98			1.166		98
174LU 99			1.169	(10-)	99
174LU 100			1.179		100
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174LU 101			1.186	(11)	101
174LU 102			1.197	(12+)	102
174LU 103			1.204		103
174LU 104			1.219		104
174LU 105			1.240		105
174LU 106			1.245		106
174LU 107			1.247	(12+)	107
174LU 108			1.261		108
174LU 109			1.275		109
174LU 110			1.286		110
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174LU 111			1.293		111
174LU 112			1.294		112
174LU 113			1.301		113
174LU 114			1.305		114
174LU 115			1.328		115
174LU 116			1.331		116
174LU 117			1.353		117
174LU 118			1.363		118
174LU 119			1.370	(12-)	119
174LU 120			1.379		120
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174LU 121			1.391		121
174LU 122			1.404	(11-)	122
174LU 123			1.406	(13+)	123
174LU 124			1.406		124
174LU 125			1.421		125
174LU 126			1.429		126

174LU 127			1.438	(5-)	127
174LU 128			1.455		128
174LU 129			1.460		129
174LU 130			1.476		130
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174LU 131			1.482	(13+)	131
174LU 132			1.484		132
174LU 133			1.498		133
174LU 134			1.516		134
174LU 135			1.535		135
174LU 136			1.549		136
174LU 137			1.557		137
174LU 138			1.564		138
174LU 139			1.576		139
174LU 140			1.589		140
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174LU 141			1.596		141
174LU 142			1.609		142
174LU 143			1.617		143
174LU 144			1.628		144
174LU 145			1.635	(14+)	145
174LU 146			1.640		146
174LU 147			1.651		147
174LU 148			1.662		148
174LU 149			1.681		149
174LU 150			1.689		150
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174LU 151			1.716		151
174LU 152			1.735		152
174LU 153			1.753		153
174LU 154			1.771		154
174LU 155			1.801		155
174LU 156			1.829		156
174LU 157			1.843		157
174LU 158			1.868		158
174LU 159			1.883	(15+)	159
174LU 160			1.903		160
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174LU 161			1.927		161
174LU 162			1.940		162
174LU 163			1.979		163
174LU 164			2.012		164
174LU 165			2.041		165
174LU 166			2.082		166
174LU 167			2.096		167
174LU 168			2.120		168
174LU 169			2.155		169
174LU 170			0.000	(1-)	170 3.31 Y 5
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S-p    =  5.308 ( 0.002)-----  
S-n    =  6.761 ( 0.002)-----  
S-2p   = 12.775 ( 0.006)-----  
S-2n   = 14.977 ( 0.003)-----  
S-alpha= -1.800 ( 0.002)-----  
  
S+p     = -6.201 ( 0.003)  
S+n     = -7.667 ( 0.002)  
S+2p    = -10.373 ( 0.031)  
S+2n    = -13.955 ( 0.002)  
S+alpha =  2.499 ( 0.002)  
  
gap p   = -0.893 ( 0.003)  
gap n   = -0.906 ( 0.003)  
gap 2p  =  2.402 ( 0.031)  
gap 2n  =  1.022 ( 0.003)  
gap alpha =  0.699 ( 0.002)
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