

^{171}Er $Z = 68$ $N = 103$ adopted link ENSDF link

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

BE = 1384.714 (0.001) MeV

Qbeta- = 1.492 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
171ER 1			0.000	5/2-	1 7.516 H 2
171ER 2				0.079 (7/2-)	2
171ER 3				0.180 (9/2-)	3
171ER 4			0.199	1/2-	4 210 NS 10
S-alpha= 0.231 (0.004)					
171ER 5				0.257 (3/2-)	5
171ER 6				0.279 (5/2-)	6
171ER 7				0.304 (11/2-)	7
171ER 8				0.358 (7/2+)	8
171ER 9				0.378	9
171ER 10				0.417 (9/2+)	10
171ER 11				0.418 (7/2-)	11
171ER 12			0.449	13/2-	12
171ER 13				0.454 (9/2-)	13
171ER 14				0.504 (11/2+)	14
171ER 15				0.532 (7/2-)	15
171ER 16				0.615 (13/2+)	16
171ER 17			0.615	15/2-	17
171ER 18				0.645 (9/2-)	18
171ER 19				0.672 (11/2-)	19
171ER 20				0.707 (1/2-)	20
171ER 21			0.723	13/2-	21
171ER 22				0.728	22
171ER 23				0.737 (3/2-)	23
171ER 24				0.794 (5/2-)	24
171ER 25			0.803	17/2-	25
171ER 26				0.841 (3/2-, 5/2-)	26
171ER 27				0.880 (7/2-)	27
171ER 28				0.903 (5/2-)	28
171ER 29				0.905 (3/2-)	29
171ER 30				0.907 (5/2-)	30
171ER 31				0.970 (13/2+)	31
171ER 32				0.972 (5/2-)	32
171ER 33			1.011	19/2-	33
171ER 34			1.014	15/2-	34
171ER 35				1.061 (7/2-)	35
171ER 36			1.082	17/2-	36

171ER 37				1.106	(11/2-)	37
171ER 38				1.171	(9/2-)	38
171ER 39				1.220	(3/2-)	39
171ER 40		1.238	21/2-			40

171ER 41				1.263	1/2,3/2	41
171ER 42				1.304		42
171ER 43				1.334	1/2,3/2	43
171ER 44				1.374	1/2,3/2	44
171ER 45				1.405		45
171ER 46				1.435		46
171ER 47		1.438	19/2-			47
171ER 48				1.471		48
171ER 49		1.485	23/2-			49
171ER 50				1.496	1/2,3/2	50

171ER 51				1.508		51
171ER 52				1.520	1/2,3/2	52
171ER 53		1.525	21/2-			53
171ER 54				1.535		54
171ER 55				1.560	(13/2+,15/2-)	55
171ER 56				1.570		56
171ER 57				1.616		57
171ER 58				1.627	1/2,3/2	58
171ER 59				1.647		59
171ER 60				1.682		60

171ER 61				1.723	1/2,3/2	61
171ER 62				1.750	(7/2-)	62
171ER 63		1.753	25/2-			63
171ER 64				1.757	1/2,3/2	64
171ER 65				1.766		65
171ER 66				1.797	(1/2,3/2)	66
171ER 67				1.823	(9/2-)	67
171ER 68				1.857		68
171ER 69				1.925		69
171ER 70		1.941	23/2-			70

171ER 71				1.962	1/2,3/2	71
171ER 72				1.976	1/2,3/2	72
171ER 73		2.036	27/2-			73
171ER 74				2.037	1/2,3/2	74
171ER 75		2.046	25/2-			75
171ER 76				2.053	1/2,3/2	76
171ER 77				2.064	1/2,3/2	77
171ER 78				2.087	1/2,3/2	78
171ER 79				2.104	1/2,3/2	79
171ER 80				2.138		80

171ER 81				2.172		81

171ER 82				2.195		82
171ER 83				2.265		83
171ER 84				2.285		84
171ER 85				2.308		85
171ER 86				2.335		86
171ER 87		2.341	29/2-			87
171ER 88				2.361		88
171ER 89				2.385		89
171ER 90		2.523	27/2-			90

171ER 91				2.600	(5/2-)	91
171ER 92		2.639	29/2-			92
171ER 93		2.659	31/2-			93
171ER 94		2.999	33/2-			94
171ER 95		3.177	31/2-			95
171ER 96		3.299	33/2-			96
171ER 97		3.352	35/2-			97
171ER 98		3.724	37/2-			98
171ER 99		3.902	35/2-			99
171ER 100		4.018	37/2-			100

171ER 101		4.112	39/2-			101
171ER 102		4.509	41/2-			102
171ER 103		4.790	41/2-			103
171ER 104		4.936	43/2-			104
171ER 105		5.607	45/2-			105

S-p = 8.769 (0.050)-----
S-n = 5.682 (0.002)-----
S-2p = 16.700 (0.301)-----
S-2n = 12.939 (0.001)-----
S-alpha= 0.231 (0.004)-----

S+p = -6.945 (0.006)
S+n = -6.836 (0.004)
S+2p = -14.411 (0.001)
S+2n = -12.088 (0.173)
S+alpha = 0.597 (0.001)

gap p = 1.825 (0.050)
gap n = -1.155 (0.005)
gap 2p = 2.288 (0.301)
gap 2n = 0.851 (0.173)
gap alpha = 0.829 (0.004)