

^{161}Er $Z = 68$ $N = 93$ adopted link ENSDF link

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

BE = 1311.484 (0.009) MeV

Qbeta+ = 1.995 (0.009) MeV

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

S-alpha=	-1.798 (0.010)-----				
161ER 1			0.000	3/2-	1 3.21 H 3
161ER 2			0.060	5/2-	2 0.15 NS LE
161ER 3			0.144	7/2-	3 0.18 NS LE
161ER 4			0.172	5/2-	4 0.35 NS 10
161ER 5	0.189	9/2+			5 84 NS 10
161ER 6	0.213	5/2+			6 0.81 NS 6
161ER 7	0.217	7/2+			7 0.55 NS 5
161ER 8			0.250	9/2-	8
161ER 9			0.266	7/2-	9 0.21 NS 3
161ER 10	0.267	13/2+			10 2.0 NS 2

161ER 11	0.297	11/2+			11
161ER 12	0.369	3/2+			12
161ER 13			0.388	11/2-	13
161ER 14			0.390	9/2-	14
161ER 15			0.396	11/2-	15 7.5 US 7
161ER 16	0.463	3/2+			16
161ER 17	0.466	17/2+			17
161ER 18	0.481	1/2+			18
161ER 19	0.496	5/2+			19
161ER 20	0.509	15/2+			20

161ER 21				0.522	21
161ER 22			0.531	13/2-	22
161ER 23				0.540 (11/2-)	23
161ER 24				0.563	24
161ER 25			0.578	13/2-	25
161ER 26	0.590	7/2+			26
161ER 27				0.621	27
161ER 28				0.635	28
161ER 29				0.665	29
161ER 30				0.704	30

161ER 31				0.712	31
161ER 32				0.725 (3/2-)	32
161ER 33			0.726	15/2-	33
161ER 34				0.738	34
161ER 35			0.783	15/2-	35
161ER 36	0.784	21/2+			36

161ER 37						0.843	(5/2-)	37
161ER 38		0.849	19/2+					38
161ER 39					0.892	17/2-		39
161ER 40					1.007	17/2-		40

161ER 41					1.136	19/2-		41
161ER 42		1.209	25/2+					42
161ER 43					1.250	19/2-		43
161ER 44		1.302	23/2+					44
161ER 45					1.313	21/2-		45
161ER 46							1.481 (5/2,7/2-)	46
161ER 47					1.509	21/2-		47
161ER 48					1.590	23/2-		48
161ER 49		1.727	29/2+					49
161ER 50					1.772	25/2-		50

161ER 51					1.784	23/2-		51
161ER 52		1.850	27/2+					52
161ER 53							1.960 (7/2-)	53
161ER 54		2.045	9/2+					54
161ER 55							2.063 (5/2+,7/2)	55
161ER 56					2.063	27/2-		56
161ER 57							2.067 (5/2,7/2-)	57
161ER 58					2.071	25/2-		58
161ER 59					2.257	29/2-		59
161ER 60		2.326	33/2+					60

161ER 61					2.369	27/2-		61
161ER 62		2.477	31/2+					62
161ER 63					2.549	31/2-		63
161ER 64					2.674	29/2-		64
161ER 65					2.775	33/2-		65
161ER 66					2.980	31/2-		66
161ER 67		2.991	37/2+					67
161ER 68					3.067	35/2-		68
161ER 69		3.169	35/2+					69
161ER 70					3.346	37/2-		70

161ER 71					3.566	35/2-		71
161ER 72					3.646	39/2-		72
161ER 73		3.708	41/2+					73
161ER 74		3.913	39/2+					74
161ER 75					3.976	41/2-		75
161ER 76					4.298	43/2-		76
161ER 77		4.462	45/2+					77
161ER 78					4.670	45/2-		78
161ER 79		4.691	43/2+					79
161ER 80					5.020	47/2-		80

161ER 81		5.247	49/2+					81

161ER	82			5.428	49/2-		82
161ER	83			5.808	51/2-		83
161ER	84		6.076	53/2+			84
S-p	=	6.108	(0.017)	-----			
161ER	85			6.243	53/2-		85
161ER	86					6.656	(55/2-) 86
161ER	87					6.957	(57/2+) 87
161ER	88					7.118	(57/2-) 88
S-n	=	7.208	(0.026)	-----			
161ER	89					7.557	(59/2-) 89
161ER	90					7.873	(61/2+) 90

161ER	91					8.039	(61/2-) 91
161ER	92					8.499	(63/2-) 92
161ER	93					8.808	(65/2+) 93
161ER	94					8.984	(65/2-) 94
161ER	95					9.458	(67/2-) 95
161ER	96					9.768	(69/2+) 96
161ER	97					9.938	(69/2-) 97

S-p = 6.108 (0.017)-----
S-n = 7.208 (0.026)-----
S-2p = 10.612 (0.009)-----
S-2n = 16.783 (0.009)-----
S-alpha= -1.798 (0.010)-----

S+p = -3.565 (0.028)
S+n = -9.204 (0.009)
S+2p = -8.671 (0.017)
S+2n = -16.109 (0.010)
S+alpha = 2.481 (0.028)

gap p = 2.543 (0.033)
gap n = -1.996 (0.027)
gap 2p = 1.942 (0.020)
gap 2n = 0.674 (0.014)
gap alpha = 0.682 (0.030)