

^{151}Er $Z = 68$ $N = 83$ adopted link ENSDF link

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

BE = 1223.836 (0.016) MeV

Qbeta+ = 5.357 (0.018) MeV

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

S-alpha=	-3.505	(0.019)	-----		
151ER 1				0.000 (7/2-)	1 23.5 S 20
151ER 2				0.802 (9/2-)	2
151ER 3				0.984 (3/2-)	3
151ER 4				1.140 (13/2+)	4 10 NS 3
151ER 5				1.206 (1/2-)	5
151ER 6				1.495 (9/2-)	6
151ER 7				1.512 (3/2-;11/2-)	7
151ER 8				1.549 (11/2-)	8
151ER 9				1.684 (3/2-;11/2-)	9
151ER 10				1.721 (11/2+)	10

151ER 11				2.032 (1/2,3/2)	11
151ER 12				2.075 (13/2+)	12
151ER 13				2.165	13
151ER 14				2.174	14
151ER 15				2.212 (15/2+)	15
151ER 16				2.240 (17/2+)	16
151ER 17				2.314	17
151ER 18				2.330	18
151ER 19				2.449	19
151ER 20				2.451	20

151ER 21				2.528 (21/2+)	21
151ER 22				2.586 (27/2-)	22 0.58 S 2
151ER 23				2.611	23
151ER 24				2.622 (1/2+,3/2+)	24
151ER 25				2.776	25
151ER 26				2.875	26
151ER 27				2.917 (11/2-,13/2-)	27
151ER 28				2.921	28
151ER 29				2.966 (1/2+,3/2+)	29
151ER 30				3.031 (11/2-,13/2-)	30

151ER 31				3.037 (9/2-,11/2-)	31
151ER 32				3.051 (1/2+,3/2+)	32
151ER 33				3.094	33
151ER 34				3.110	34
151ER 35				3.213 (9/2+,11/2,13/2)	35-
151ER 36				3.270	36

151ER 37				3.288		37
151ER 38				3.341		38
S-p = 3.609 (0.022)-----						
151ER 39				3.686	(31/2-)	39
151ER 40				3.767		40

151ER 41				3.901	(33/2-)	41
151ER 42				4.190	(33/2:37/2-)	42
151ER 43				4.455	(37/2-)	43
151ER 44				4.618	(39/2-)	44
151ER 45				4.752	(41/2-)	45
151ER 46				5.130	(43/2+)	46
S-2p = 5.150 (0.019)-----						
151ER 47				5.804	(41/2:45/2-)	47
151ER 48				6.132	(45/2+)	48
151ER 49				6.548	(47/2-)	49
151ER 50				6.664	(49/2-)	50

151ER 51				6.772	(51/2+,53/2-)	51
151ER 52				7.441	(53/2-)	52
151ER 53				8.016	(55/2+)	53
151ER 54				8.380	(57/2+)	54
S-n = 8.506 (0.024)-----						
151ER 55				9.046	(57/2:61/2+)	55
151ER 56				9.392	(61/2+)	56

S-p = 3.609 (0.022)-----
S-n = 8.506 (0.024)-----
S-2p = 5.150 (0.019)-----
S-2n = 20.667 (0.032)-----
S-alpha= -3.505 (0.019)-----

S+p = -0.743 (0.056)
S+n = -10.305 (0.019)
S+2p = -3.530 (0.154)
S+2n = -18.343 (0.019)
S+alpha = 5.339 (0.023)

gap p = 2.866 (0.061)
gap n = -1.799 (0.030)
gap 2p = 1.620 (0.155)
gap 2n = 2.324 (0.038)
gap alpha = 1.834 (0.030)