

^{155}Er $Z = 68$ $N = 87$ adopted link ENSDF link

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

BE = 1260.064 (0.006) MeV

Qbeta+ = 3.831 (0.018) MeV

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

S-alpha=	-4.118 (0.007)-----				
155ER 1			0.000	7/2-	1 5.3 M 3
155ER 2				0.088	5/2-,7/2-,9/2-
155ER 3				0.152	-
155ER 4			0.227	9/2-	4
155ER 5				0.323	5/2-,7/2-,9/2-
155ER 6				0.399	6
155ER 7				0.467	-
155ER 8			0.532	11/2-	8
155ER 9	0.563	13/2+			9 34.8 NS 6
155ER 10				0.584	10

155ER 11				0.595	11
155ER 12				0.607	12
155ER 13				0.760	13
155ER 14				0.960	14
155ER 15	1.038	17/2+			15 26 PS LT
155ER 16				1.057	16
155ER 17				1.431	17
155ER 18				1.563	18
155ER 19	1.573	21/2+			19 20 PS LT
155ER 20	2.169	25/2+			20 6 PS LT

155ER 21	2.230	23/2+			21
155ER 22	2.574	27/2+			22
155ER 23	2.838	29/2+			23 13 PS LT
155ER 24	3.354	31/2+			24
155ER 25	3.557	33/2+			25 12 PS LT
155ER 26				3.623	26
155ER 27			4.093	33/2-	27
155ER 28	4.219	35/2+			28
155ER 29	4.288	37/2+			29 24 PS LT
155ER 30			4.444	37/2-	30

155ER 31	4.788	39/2+			31
S-p	= 4.859 (0.010)-----				
155ER 32	4.928	41/2+			32 18 PS LT
155ER 33	5.012	43/2+			33 0.90 NS
155ER 34			5.123	41/2-	34
155ER 35	5.479	45/2+			35 21 PS LT

155ER 36		5.786	47/2+					36
155ER 37					5.852	45/2-		37
155ER 38		6.207	49/2+					38
155ER 39					6.223	49/2-		39
155ER 40		6.748	51/2+					40

155ER 41					6.889	51/2-		41
155ER 42		6.977	53/2+					42
155ER 43					7.112	53/2-		43
155ER 44							7.197 (53/2+)	44
155ER 45		7.568	55/2+					45
S-2p	=	7.644 (0.007)	-----					
155ER 46		7.672	57/2+					46
S-n	=	7.675 (0.008)	-----					
155ER 47							7.814 (55/2-)	47
155ER 48					7.854	57/2-		48
155ER 49		7.985	59/2+					49
155ER 50					8.009	57/2-		50

155ER 51					8.397	61/2-		51
155ER 52					8.665	61/2-		52
155ER 53		8.834	61/2+					53
155ER 54					9.011	63/2-		54
155ER 55		9.046	61/2+					55
155ER 56							9.084	56
155ER 57					9.165	63/2-		57
155ER 58					9.267	65/2-		58
155ER 59					9.354	65/2-		59
155ER 60		9.462	65/2+					60

155ER 61					9.594	65/2-		61
155ER 62		9.655	65/2+					62
155ER 63							9.725 (67/2)-	63
155ER 64		9.811	65/2+					64
155ER 65					9.865	67/2-		65
155ER 66							9.985 (69/2)	66

S-p	=	4.859 (0.010)	-----					
S-n	=	7.675 (0.008)	-----					
S-2p	=	7.644 (0.007)	-----					
S-2n	=	17.885 (0.011)	-----					
S-alpha	=	-4.118 (0.007)	-----					
S+p	=	-1.914 (0.016)						
S+n	=	-10.074 (0.025)						
S+2p	=	-5.789 (0.012)						
S+2n	=	-17.347 (0.027)						
S+alpha	=	3.951 (0.019)						

gap p = 2.944 (0.019)
gap n = -2.398 (0.027)
gap 2p = 1.855 (0.014)
gap 2n = 0.538 (0.029)
gap alpha = -0.168 (0.020)