

^{148}Er $Z = 68$ $N = 80$ adopted link ENSDF link

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

BE = 1192.834 (0.010) MeV

Qbeta+ = 6.512 (0.084) MeV

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

S-alpha=	-2.666 (0.013)	-----			
148ER 1	0.000	0+			1 4.6 S 2
148ER 2	0.646	2+			2
148ER 3				1.523 (4+)	3
148ER 4				2.252 (5-)	4
148ER 5				2.525 (6+)	5
148ER 6				2.535 (7-)	6
148ER 7				2.704 (7-)	7
148ER 8				2.782 (8+)	8
148ER 9				2.913 (10+)	9 13 US 3
S-p =	3.011 (0.011)	-----			
148ER 10				3.171	10

148ER 11				3.355	11
S-2p =	3.502 (0.012)	-----			
148ER 12				3.529 (11+)	12
148ER 13				3.723 (12+)	13
148ER 14				4.174	14
148ER 15				4.532 (13+)	15
148ER 16				4.609 (12-)	16
148ER 17				4.678 (13-)	17
148ER 18				4.705 (14+)	18
148ER 19				4.984 (15-)	19
148ER 20				5.098 (14-)	20

148ER 21				5.127 (14+)	21
148ER 22				5.138	22
148ER 23				5.248 (15-)	23
148ER 24				5.304 (16+)	24
148ER 25				5.716 (16-)	25
148ER 26				5.743 (16+)	26
148ER 27				5.946 (16+)	27
148ER 28				6.009	28
148ER 29				6.088 (16-)	29
148ER 30				6.103 (17+)	30

148ER 31				6.188 (17-)	31
148ER 32				6.219 (17-)	32
148ER 33				6.287	33
148ER 34				6.290 (17-)	34

148ER 35				6.395	(17+)	35
148ER 36				6.518	(18+)	36
148ER 37				6.637	(18+)	37
148ER 38				6.710	(18+)	38
148ER 39				6.770		39
148ER 40				6.895	(18+)	40

148ER 41				6.922	(19+)	41
148ER 42				7.027	(19-)	42
148ER 43				7.052	(19+)	43
148ER 44				7.092	(19-)	44
148ER 45				7.295	(19+)	45
148ER 46				7.354	(20+)	46
148ER 47				7.532	(20+)	47
148ER 48				7.585	(20+)	48
148ER 49				7.671		49
148ER 50				7.723	(20-)	50

148ER 51				7.733	(20+)	51
148ER 52				7.740		52
148ER 53				7.832	(21+)	53
148ER 54				7.879	(21+)	54
148ER 55				8.018	(21-)	55
148ER 56				8.120	(21-)	56
148ER 57				8.201		57
148ER 58				8.275	(22-)	58
148ER 59				8.304		59
148ER 60				8.549	(23-)	60

148ER 61				9.018	(23+)	61
148ER 62				9.591		62

S-p = 3.011 (0.011)-----
S-n = 12.943 (0.040)-----
S-2p = 3.502 (0.012)-----
S-2n = 23.300 (0.012)-----
S-alpha= -2.666 (0.013)-----

S+p = 0.239 (0.149)
S+n = -10.334 (0.030)
S+2p = -1.916 (0.300)
S+2n = -22.495 (0.020)
S+alpha = 2.784 (0.150)

gap p = 3.249 (0.150)
gap n = 2.609 (0.049)
gap 2p = 1.586 (0.300)
gap 2n = 0.805 (0.023)
gap alpha = 0.118 (0.151)