

^{154}Er $Z = 68$ $N = 86$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1252.388 (0.005) MeV

Qbeta+ = 2.034 (0.010) MeV

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

S-alpha=	-4.280	(0.007)	-----			

154ER 1	0.000	0+				1 3.73 M 9
154ER 2	0.561	2+				2
154ER 3	1.162	4+				3
154ER 4	1.788	6+				4
154ER 5				1.896	5-	5
154ER 6	2.329	8+				6
154ER 7				2.461	7-	7
154ER 8	2.584	8+				8
154ER 9				3.014	9-	9
154ER 10	3.016	10+				10

154ER 11				3.025	11-	11 39 NS 4
154ER 12	3.655	12+				12
154ER 13				3.830	13-	13
154ER 14	4.274	14+				14
154ER 15				4.499	15-	15
154ER 16	4.531	(15+)				16
154ER 17	4.678	16+				17
S-p =	4.882	(0.007)	-----			
154ER 18				5.006	17-	18
154ER 19	5.328	18+				19
154ER 20				5.462	19-	20

154ER 21	6.063	20+				21
154ER 22				6.087	(20-)	22
154ER 23				6.289	21-	23
154ER 24				6.575	(21-)	24
154ER 25	6.745	22+				25
154ER 26				7.015	23-	26
S-2p =	7.065	(0.007)	-----			
154ER 27				7.334	25-	27
154ER 28				8.009	(26)-	28
154ER 29				8.106	27-	29
154ER 30	8.310	(26+)				30

154ER 31	8.658	(27+)				31
154ER 32	8.669	(28+)				32
154ER 33	9.294	(29+)				33

154ER 34				9.475	29-			34
154ER 35		9.480	(29+)					35
154ER 36		9.589	(30+)					36
154ER 37		9.843	(30+)					37
154ER 38					10.108	31-		38
154ER 39		10.150	(32+)					39
S-n	=	10.210	(0.011)	-----				
154ER 40					10.429	33-		40

154ER 41						11.354	(34)	41
154ER 42						11.504	(35)	42
154ER 43		11.621	(34+)					43
154ER 44		11.660	(34+)					44
154ER 45						11.889	(35)	45
154ER 46		11.897	(36+)					46
154ER 47						13.209	(37)	47
154ER 48						13.500	(38)	48
154ER 49						13.950	(40)	49
154ER 50						14.000	(38)	50

154ER 51						14.269	(39)	51
154ER 52						14.382	(39)	52
154ER 53						14.676	(39)	53
154ER 54						14.921	(41)	54
154ER 55						16.030	(42)	55

S-p	=	4.882	(0.007)	-----				
S-n	=	10.210	(0.011)	-----				
S-2p	=	7.065	(0.007)	-----				
S-2n	=	18.247	(0.010)	-----				
S-alpha	=	-4.280	(0.007)	-----				
S+p	=	-1.310	(0.011)					
S+n	=	-7.675	(0.008)					
S+2p	=	-5.238	(0.011)					
S+2n	=	-17.749	(0.025)					
S+alpha	=	4.171	(0.009)					
gap p	=	3.572	(0.013)					
gap n	=	2.534	(0.013)					
gap 2p	=	1.827	(0.013)					
gap 2n	=	0.498	(0.027)					
gap alpha	=	-0.109	(0.011)					