

^{162}Er $Z = 68$ $N = 94$ adopted link ENSDF link

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

BE = 1320.688 (0.001) MeV

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

S-alpha=	-1.648	(0.002)	-----					

162ER	1	0.000	0+					1 STABLE
162ER	2	0.102	2+					2 1389 PS 21
162ER	3	0.330	4+					3 60.3 PS 42
162ER	4	0.667	6+					4 6.2 PS 42
162ER	5	0.901	2+					5 1.25 PS 7
162ER	6	1.002	3+					6
162ER	7	1.087	0+					7
162ER	8	1.097	8+					8 3.5 PS LT
162ER	9	1.128	4+					9
162ER	10	1.171	2+					10 1.2 PS 2

162ER	11	1.286	5+					11
162ER	12				1.352	1-		12
162ER	13				1.357	3-		13
162ER	14	1.369	(4+)					14
162ER	15						1.413 1,2+	15
162ER	16				1.420	(2-)		16
162ER	17	1.430	2+					17 0.43 PS 19
162ER	18	1.460	6+					18
162ER	19				1.469	5-		19
162ER	20	1.501	2+					20

162ER	21				1.506	1-		21
162ER	22				1.543	(4-)		22
162ER	23				1.573	2-		23
162ER	24				1.594	(1-)		24
162ER	25	1.603	10+					25
162ER	26				1.623	3-		26 0.31 NS GT
162ER	27	1.669	7+					27
162ER	28				1.682	7(-)		28
162ER	29	1.712	4+					29
162ER	30				1.730	(5-)		30

162ER	31						1.740	31
162ER	32				1.761	(6-)		32
162ER	33						1.805	33
162ER	34						1.857	34
162ER	35	1.865	2+					35
162ER	36	1.873	8+					36

162ER 37						1.910		37
162ER 38						1.931		38
162ER 39						1.955 (3-,4+)		39
162ER 40						1.966		40

162ER 41						1.975		41
162ER 42				1.986	9-			42
162ER 43				2.026	7(-)			43 76.7 NS 39
162ER 44						2.026		44
162ER 45						2.033		45
162ER 46						2.061 (1,2+)		46
162ER 47				2.062	(8-)			47
162ER 48		2.114	(0+)					48
162ER 49						2.122		49
162ER 50		2.134	9+					50

162ER 51		2.165	12+					51
162ER 52		2.192	2+					52
162ER 53						2.206		53
162ER 54						2.242		54
162ER 55						2.260		55
162ER 56						2.288 (3-,4+)		56
162ER 57						2.319		57
162ER 58						2.332		58
162ER 59		2.347	10+					59
162ER 60				2.368	11-			60

162ER 61						2.399		61
162ER 62				2.429	(10-)			62
162ER 63						2.450		63
162ER 64						2.520		64
162ER 65						2.553		65
162ER 66						2.567		66
162ER 67						2.598		67
162ER 68						2.604		68
162ER 69						2.618		69
162ER 70		2.656	11+					70

162ER 71						2.664		71
162ER 72		2.746	14+					72
162ER 73						2.752 (6)		73
162ER 74				2.818	13-			74
162ER 75				2.842	(12-)			75
162ER 76		2.911	12+					76
162ER 77						3.040		77
162ER 78		3.117	2+					78
162ER 79						3.133		79
162ER 80						3.180		80

162ER 81						3.268		81

162ER 82		3.292	16+				82
162ER 83							3.293
162ER 84							3.368
162ER 85							3.389
162ER 86							3.400
162ER 87							3.415
162ER 88							3.436
162ER 89		3.518	(2+)				89
162ER 90							3.676 2+,3-

162ER 91							3.690
162ER 92		3.847	18+				92
162ER 93		4.463	20+				93
S-p	=	6.427	(0.002)	-----			
162ER 94					6.675	(25-)	94
162ER 95		6.742	(26+)				95
162ER 96					7.168	(26-)	96
162ER 97					7.516	(27-)	97
162ER 98		7.623	(28+)				98
162ER 99					8.014	(28-)	99
162ER 100					8.418	(29-)	100

162ER 101		8.551	(30+)				101
162ER 102					8.934	(30-)	102
S-n	=	9.204	(0.009)	-----			
162ER 103					9.367	(31-)	103
162ER 104		9.508	(32+)				104
162ER 105					9.916	(32-)	105
162ER 106					10.302	(33-)	106
162ER 107		10.481	(34+)				107
162ER 108					10.898	(34-)	108
S-2p	=	11.240	(0.001)	-----			
162ER 109					11.252	(35-)	109
162ER 110		11.470	(36+)				110

162ER 111					12.242	(37-)	111
162ER 112		12.490	(38+)				112
162ER 113					13.290	(39-)	113
162ER 114		13.553	(40+)				114
162ER 115					14.398	(41-)	115
162ER 116		14.664	(42+)				116
162ER 117					15.574	(43-)	117
162ER 118		15.832	(44+)				118
S-2n	=	16.413	(0.024)	-----			
162ER 119					16.820	(45-)	119
162ER 120		17.063	(46+)				120

162ER 121					18.129	(47-)	121
162ER 122		18.358	(48+)				122
162ER 123					19.511	(49-)	123

S-p = 6.427 (0.002) -----
S-n = 9.204 (0.009) -----
S-2p = 11.240 (0.001) -----
S-2n = 16.413 (0.024) -----
S-alpha= -1.648 (0.002) -----

S+p = -3.683 (0.006)
S+n = -6.905 (0.005)
S+2p = -9.256 (0.015)
S+2n = -15.751 (0.001)
S+alpha = 2.316 (0.007)

gap p = 2.744 (0.006)
gap n = 2.300 (0.010)
gap 2p = 1.984 (0.015)
gap 2n = 0.662 (0.024)
gap alpha = 0.667 (0.007)