

^{249}Cf $Z = 98$ $N = 151$ adopted link ENSDF link

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

BE = 1863.365 (0.001) MeV

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

S-alpha=	-6.293	(0.002)	-----		
249CF 1			0.000	9/2-	1 351 Y 2
249CF 2			0.062	11/2-	2
249CF 3				0.136 (13/2-)	3
249CF 4	0.145	5/2+			4 45 US 5
249CF 5	0.188	7/2+			5
249CF 6				0.221 (15/2-)	6
249CF 7	0.243	9/2+			7
249CF 8				0.315 (11/2+)	8
249CF 9				0.317 (17/2-)	9
249CF 10	0.380	7/2+			10

249CF 11				0.384 (13/2+)	11
249CF 12	0.417	1/2+			12
249CF 13				0.426 (19/2-)	13
249CF 14	0.438	9/2+			14
249CF 15				0.440 (3/2+)	15
249CF 16				0.443 (7/2+)	16
249CF 17				0.460 (5/2+)	17
249CF 18				0.501 (9/2+)	18
249CF 19				0.545 (21/2-)	19
249CF 20				0.551 (1/2+,3/2,5/2+)	20

249CF 21				0.606	21
249CF 22				0.668 (13/2-)	22
249CF 23				0.676 (23/2-)	23
249CF 24				0.751 (15/2-)	24
249CF 25				0.813 (5/2-)	25
249CF 26				0.818 (25/2-)	26
249CF 27				0.852 (7/2-)	27
249CF 28				0.903 (9/2-)	28
249CF 29				0.920 (11/2+)	29
249CF 30				0.962 (11/2-)	30

249CF 31				0.971 (27/2-)	31
249CF 32				0.992 (13/2+)	32
249CF 33	1.008	9/2+			33
249CF 34				1.031	34
249CF 35				1.063 (13/2+)	35
249CF 36				1.078 (15/2+)	36
249CF 37				1.115	37

249CF	38				1.135	(29/2-)	38
249CF	39				1.145	(15/2+)	39
249CF	40				1.164		40

249CF	41				1.178	(17/2+)	41
249CF	42				1.192		42
249CF	43				1.200	(7/2-,9/2)	43
249CF	44				1.219	(7/2)-	44
249CF	45				1.236	(17/2+)	45
249CF	46				1.238	(5/2-,7/2,9/2+)	46
249CF	47				1.251		47
249CF	48				1.268	(9/2-)	48
249CF	49				1.304		49
249CF	50				1.309	(31/2-)	50

249CF	51				1.340	(19/2+)	51
249CF	52				1.415	(7/2+)	52
249CF	53				1.463	(9/2+)	53
249CF	54				1.482		54
249CF	55				1.494	(33/2-)	55
249CF	56				1.498		56
249CF	57				1.530	(11/2+)	57
249CF	58				1.541		58
249CF	59				1.603	(13/2+)	59
249CF	60				1.648		60

249CF	61				1.674		61
249CF	62				1.689	(35/2-)	62
249CF	63				1.709		63
249CF	64				1.895	(37/2-)	64
249CF	65				1.914		65
249CF	66				2.108	(39/2-)	66
249CF	67				2.334	(41/2-)	67
249CF	68				2.565	(43/2-)	68
249CF	69				2.809	(45/2-)	69
249CF	70				3.055	(47/2-)	70

249CF	71				3.315	(49/2-)	71

S-p = 5.697 (0.050)-----
S-n = 5.587 (0.005)-----
S-2p = 10.388 (0.004)-----
S-2n = 12.529 (0.014)-----
S-alpha= -6.293 (0.002)-----

S+p = -3.885 (0.001)
S+n = -6.624 (0.002)
S+2p = -8.342 (0.014)
S+2n = -11.730 (0.004)

S+alpha = 7.198 (0.002)

gap p = 1.813 (0.050)

gap n = -1.037 (0.006)

gap 2p = 2.046 (0.015)

gap 2n = 0.799 (0.015)

gap alpha = 0.905 (0.003)