

^{251}Cf $Z = 98$ $N = 153$ adopted link ENSDF link

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

BE = 1875.096 (0.004) MeV

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

S-alpha=	-6.177	(0.005)	-----		
251CF 1	0.000	1/2+			1 898 Y 44
251CF 2	0.025	3/2+			2
251CF 3	0.048	5/2+			3
251CF 4	0.106	7/2+			4
251CF 5	0.106	7/2+			5 38 NS 2
251CF 6	0.147	9/2+			6
251CF 7	0.166	9/2+			7
251CF 8	0.178	3/2+			8
251CF 9	0.212	5/2+			9
251CF 10				0.238 (11/2+)	10

251CF 11	0.239	11/2+			11
251CF 12	0.259	7/2+			12
251CF 13				0.296 (13/2+)	13
251CF 14	0.320	9/2+			14
251CF 15				0.325 (13/2+)	15
251CF 16			0.370 11/2-		16 1.3 US 1
251CF 17				0.392 (11/2+)	17
251CF 18				0.420	18
251CF 19				0.424 (15/2+)	19
251CF 20			0.434 9/2-		20

251CF 21				0.535	21
251CF 22	0.544	5/2+			22
251CF 23				0.569 (15/2-)	23
251CF 24				0.590 (7/2+)	24
251CF 25			0.601 3/2-		25
251CF 26			0.625 7/2-		26
251CF 27			0.632 1/2-		27
251CF 28				0.649 (9/2+)	28
251CF 29				0.683 (9/2+)	29
251CF 30			0.691 11/2-		30

251CF 31			0.708 5/2-		31
251CF 32				0.720 (11/2+)	32
251CF 33				0.729	33
251CF 34				0.758 (11/2+)	34
251CF 35				0.774 (3/2+)	35
251CF 36				0.858	36
251CF 37				0.942 (5/2-)	37

251CF	38				0.974	(9/2+)	38
251CF	39				0.982	(3/2-)	39
251CF	40				1.009	(5/2-)	40

251CF	41				1.015		41
251CF	42				1.044	(7/2-)	42
251CF	43				1.050		43
251CF	44				1.061		44
251CF	45				1.078	(9/2)	45
251CF	46				1.086	(9/2-)	46
251CF	47		1.095	9/2-			47
251CF	48				1.146		48
251CF	49		1.156	11/2-			49
251CF	50				1.183	(7/2-)	50

251CF	51				1.186	(5/2,7/2)	51
251CF	52				1.222		52
251CF	53				1.250	(7/2+)	53
251CF	54				1.250	(1/2-)	54
251CF	55				1.262	(5/2-)	55
251CF	56				1.304	(11/2-)	56
251CF	57				1.326	(9/2-)	57
251CF	58				1.335	(3/2-)	58
251CF	59				1.374		59

S-p = 6.106 (0.005)-----
S-n = 5.107 (0.004)-----
S-2p = 11.194 (0.005)-----
S-2n = 11.730 (0.004)-----
S-alpha= -6.177 (0.005)-----

S+p = -4.129 (0.050)
S+n = -6.172 (0.005)
S+2p = -9.367 (0.004)
S+2n = -10.976 (0.006)
S+alpha = 7.240 (0.006)

gap p = 1.977 (0.050)
gap n = -1.065 (0.006)
gap 2p = 1.826 (0.006)
gap 2n = 0.754 (0.007)
gap alpha = 1.063 (0.008)