

$^{248}\text{Cf}$        $Z = 98$        $N = 150$       [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1857.779 ( 0.005) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-6.361	( 0.005)	-----		
248CF 1	0.000	0+			1 333.5 D 28
248CF 2	0.042	2+			2
248CF 3	0.138	4+			3
248CF 4	0.287	6+			4
248CF 5	0.488	8+			5
248CF 6				0.592 (2)-	6
248CF 7			0.630 3-		7
248CF 8			0.677 4-		8
248CF 9			0.735 5-		9
248CF 10	0.737	10+			10
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248CF 11				0.779	11
248CF 12			0.806 6-		12
248CF 13			0.885 7-		13
248CF 14			0.979 8-		14
248CF 15				1.021	15
248CF 16				1.048	16
248CF 17				1.079	17
248CF 18				1.112	18
248CF 19				1.179	19
248CF 20			1.261 8-		20
-----					
248CF 21				1.293	21
248CF 22				1.319	22
248CF 23			1.351 9-		23
248CF 24				1.391	24
248CF 25				1.432	25
248CF 26			1.463 5-		26
248CF 27			1.477 2-		27
248CF 28			1.509 3-		28
248CF 29			1.530 6-		29
248CF 30			1.557 4-		30
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248CF 31			1.577 7-		31
248CF 32			1.605 7-		32
248CF 33			1.621 5-		33
248CF 34			1.640 4-		34
248CF 35			1.663 8-		35
248CF 36			1.686 6-		36
248CF 37			1.698 5-		37

248CF	38			1.731	8-			38
248CF	39			1.766	6-			39
248CF	40			1.781	9-			40
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248CF	41					1.839	(9-)	41
248CF	42			1.852	7-			42
248CF	43	1.927	5+					43
248CF	44			1.946	8-			44
248CF	45					1.968		45
248CF	46	1.992	6+					46
248CF	47					2.018		47
248CF	48	2.072	4+					48
248CF	49					2.105	(4-)	49
248CF	50	2.131	5+					50
-----								
248CF	51					2.161	(5-)	51
248CF	52			2.184	6-			52
248CF	53	2.207	6+					53
248CF	54	2.241	7+					54
248CF	55					2.262	(7-)	55
248CF	56	2.281	2+					56
248CF	57	2.314	3+					57
248CF	58					2.368	(4+)	58
248CF	59					2.463		59
248CF	60					2.492		60
-----								
248CF	61	2.512	3+					61
248CF	62					2.533		62
248CF	63	2.557	4+					63
248CF	64					2.580		64
248CF	65	2.602	6+					65
248CF	66					2.634	(5+)	66
248CF	67					2.682	(7+)	67

S-p = 5.540 ( 0.007)-----  
S-n = 6.937 ( 0.016)-----  
S-2p = 9.957 ( 0.005)-----  
S-2n = 12.995 ( 0.005)-----  
S-alpha= -6.361 ( 0.005)-----

S+p = 0.000 ( 0.000)  
S+n = -5.587 ( 0.005)  
S+2p = -7.744 ( 0.010)  
S+2n = -12.210 ( 0.005)  
S+alpha = 7.153 ( 0.008)

gap p = 0.000 ( 0.000)  
gap n = 1.351 ( 0.017)  
gap 2p = 2.213 ( 0.011)

gap 2n = 0.784 ( 0.008)  
gap alpha = 0.791 ( 0.009)