

$^{248}\text{Cf}$        $Z = 98$        $N = 150$       adopted link      ENSDF link

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

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
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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 = 5.541 ( 0.007)-----  
S-n = 6.943 ( 0.015)-----  
S-2p = 9.957 ( 0.005)-----  
S-2n = 12.995 ( 0.005)-----  
S-alpha= -6.361 ( 0.005)-----

S+p = -3.247 ( 0.005)  
S+n = -5.587 ( 0.005)  
S+2p = -7.744 ( 0.009)  
S+2n = -12.210 ( 0.005)  
S+alpha = 7.154 ( 0.007)

gap p = 2.293 ( 0.009)  
gap n = 1.356 ( 0.016)  
gap 2p = 2.213 ( 0.011)

gap 2n = 0.785 ( 0.008)  
gap alpha = 0.792 ( 0.009)