^{249}Cf(d,t) 2008Ka27

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 122, 377 (2014)	1-Sep-2014

E=11.0, 12.0, 13.0, 14.0 MeV. FWHM=15 keV.

Other: 1975Ya11. E=12 MeV. The authors report levels In the range 593 to 1781. The energy agreement with data of 2008Ka27 is good, and the configuration assignments are the same.

^{248}Cf Levels

E(level)[†]	Jπ[‡]	Comments
0[@]	0^+	
44[@] 2	2^+[#]	
138[@] 2	4^+[#]	
290[@] 2	6^+[#]	
490[@] 2	8^+	
593[&] 1	2^-	
630[&] 1	3^-	
677[&] 1	4^-	
735[&] 1	5^-	
779 2		Jπ: assigned by the authors As the possible 10^+ member of the g.s. band; however, the 10^+ member is assigned At E=737.3 In (^{18}O,xnγ).
806[&] 1	6^-	
885[&] 1	7^-	
979[&] 2	8^-	
1021 2		
1048 2		
1079 2		
1112 2		
1179 2		
1261[a] 2	8^-	
1293 2		
1319 2		
1351[a] 2	9^-	
1391 2		
1432 2		
1463[b] 1	5^-	
1477[c] 2	2^-	
1509[c] 1	3^-	
1530[b] 1	6^-	
1557[c] 1	4^-	
1577[d] 1	7^-	
1605[b] 1	7^-	
1621[c] 1	5^-	
1640[e] 1	4^-	
1663[d] 1	8^-	
1686[c] 3	6^-	
1698[e] 2	5^-	
1731[b] 2	8^-	
1766[e] 2	6^-	
1781[d] 3	9^-	

Continued on next page (footnotes at end of table)

^{249}Cf(d,t) 2008Ka27 (continued)

^{248}Cf Levels (continued)

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡
1839[b] *3*	(9⁻)	2072[g] *1*	4⁺	2262[i] *1*	(7⁻)	2533 *1*	
1852[e] *1*	7⁻	2105[h] *1*	(4⁻)	2281[k] *2*	2⁺	2557[l] *1*	4⁺
1927[f] *1*	5⁺	2131[g] *1*	5⁺	2314[k] *2*	3⁺	2580 *1*	
1946[e] *3*	8⁻	2161[h] *2*	(5⁻)	2368[k] *2*	(4⁺)	2602[m] *1*	6⁺
1968 *1*		2184[i] *2*	6⁻	2463 *2*		2634[l] *2*	(5⁺)
1992[f] *1*	6⁺	2207[g] *1*	6⁺	2492 *2*		2682[m] *2*	(7⁺)
2018 *3*		2241[j] *1*	7⁺	2512[l] *1*	3⁺		

† The uncertainties given represent the absolute error. The relative uncertainties for the strongly populated levels are 1 keV.
‡ Except where noted otherwise, the Jπ assignments are those of the authors based on a comparison of experimental and calculated values of the cross sections At 90, 120, and 135 degrees.
# From Adopted Levels.
@ $K^\pi=0^+$ g.s. band.
& $K^\pi=2^-$ 9/2⁻[734],5/2⁺[622]⊗2⁻ phonon.
a $K^\pi=8^-$ 9/2⁻[734],7/2⁺[624].
b $K^\pi=5^-$ 9/2⁻[734],1/2⁺[631].
c $K^\pi=2^-$ 9/2⁻[734],5/2⁺[622]⊗2⁻ phonon.
d $K^\pi=7^-$ 9/2⁻[734],5/2⁺[622].
e $K^\pi=4^-$ 9/2⁻[734],1/2⁺[631].
f $K^\pi=5^+$ 9/2⁻[734],1/2⁻[501].
g $K^\pi=4^+$ 9/2⁻[734],1/2⁻[501].
h $K^\pi=3-?$ 9/2⁻[734],3/2⁺[631].
i $K^\pi=6^-$ 9/2⁻[734],3/2⁺[631].
j $K^\pi=7^+$ 9/2⁻[734],5/2⁻[503].
k $K^\pi=2^+$ 9/2⁻[734],5/2⁻[503].
l $K^\pi=3^+$ 9/2⁻[734],3/2⁻[501].
m $K^\pi=6^+$ 9/2⁻[734],3/2⁻[501].