

The Newest L^AT_EX Template for MCM

January 27, 2013

Abstract

The abstract is here.

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1 Introduction

She said the nomination should not be decided by delegates from Florida and Michigan allocated on the basis of voting in primaries there last month, as the Clinton campaign has proposed. Mrs. Clinton got more votes in both places, although neither candidate actively campaigned there and Mr. Obama was not even on the ballot in Michigan. The party had penalized those states for

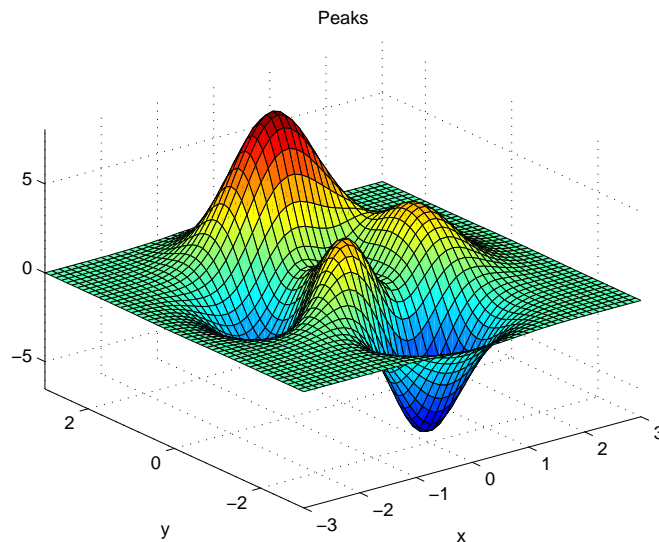


Fig 1: The figure

holding their primaries earlier than the party wanted by stripping them of their delegates to the convention. Although Mr. Gore has expressed concerns to some associates about the damage a brokered convention could cause, several associates said he was hopeful that one candidate would soon break through, sparing the party such an outcome. He told a close friend recently that his decision not to endorse feels like the right thing and that he remained optimistic the race is going to tip at some point, the friend said.

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- ... is constant.
- do not affect the population.
- have no effect on we can ignore it.
- ... is negligible
-
-
-

2 Input the mathematic formula

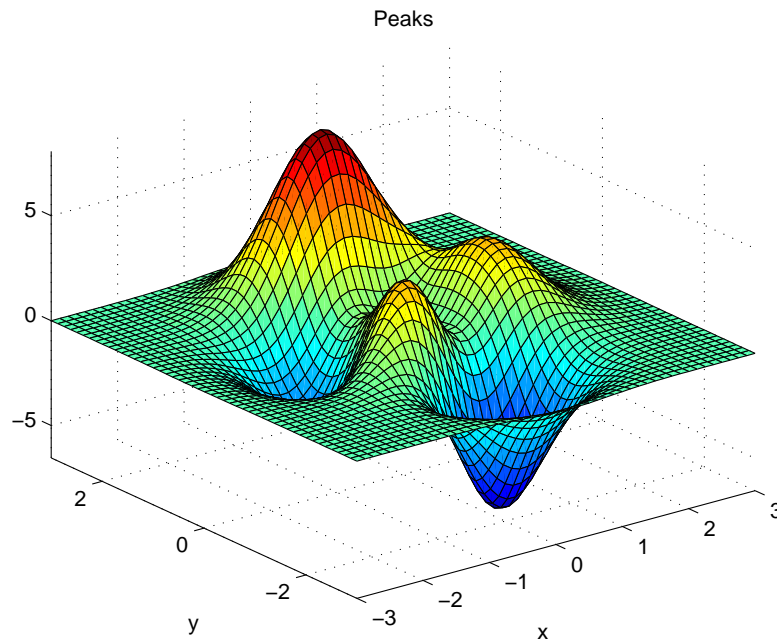


Fig 2: aa

$$\begin{aligned}
 (a+b)^4 &= (a+b)^2(a+b)^2 \\
 &= (a^2 + 2ab + b^2)(a^2 + 2ab + b^2) \\
 &= a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4
 \end{aligned} \tag{1}$$

$$\begin{aligned}
 (a+b)^3 &= (a+b)(a+b)^2 \\
 &= (a+b)(a^2 + 2ab + b^2) \\
 &= a^3 + 3a^2b + 3ab^2 + b^3
 \end{aligned} \tag{2}$$

$$(a+b)^3 = (a+b)(a+b)^2 \tag{3}$$

$$= (a+b)(a^2 + 2ab + b^2) \tag{4}$$

$$= a^3 + 3a^2b + 3ab^2 + b^3 \tag{5}$$

$$x^2 + y^2 = 1 \tag{6}$$

$$x = \sqrt{1 - y^2} \tag{7}$$

This example has two column-pairs.

$$\text{Compare } x^2 + y^2 = 1 \qquad x^3 + y^3 = 1 \qquad (8)$$

$$x = \sqrt{1 - y^2} \qquad x = \sqrt[3]{1 - y^3} \qquad (9)$$

This example has three column-pairs.

$$x = y \qquad X = Y \qquad a = b + c \qquad (10)$$

$$x' = y' \qquad X' = Y' \qquad a' = b \qquad (11)$$

$$x + x' = y + y' \qquad X + X' = Y + Y' \qquad a'b = c'b \qquad (12)$$

This example has two column-pairs.

$$\text{Compare } x^2 + y^2 = 1 \qquad x^3 + y^3 = 1 \qquad (13)$$

$$x = \sqrt{1 - y^2} \qquad x = \sqrt[3]{1 - y^3} \qquad (14)$$

This example has three column-pairs.

$$x = y \qquad X = Y \qquad a = b + c \qquad (15)$$

$$x' = y' \qquad X' = Y' \qquad a' = b \qquad (16)$$

$$x + x' = y + y' \qquad X + X' = Y + Y' \qquad a'b = c'b \qquad (17)$$

This example has two column-pairs.

$$\text{Compare } x^2 + y^2 = 1 \qquad x^3 + y^3 = 1 \qquad (18)$$

$$x = \sqrt{1 - y^2} \qquad x = \sqrt[3]{1 - y^3} \qquad (19)$$

This example has three column-pairs.

$$x = y \qquad X = Y \qquad a = b + c \qquad (20)$$

$$x' = y' \qquad X' = Y' \qquad a' = b \qquad (21)$$

$$x + x' = y + y' \qquad X + X' = Y + Y' \qquad a'b = c'b \qquad (22)$$

$$x = y \qquad \text{by hypothesis} \qquad (23)$$

$$x' = y' \qquad \text{by definition} \qquad (24)$$

$$x + x' = y + y' \qquad \text{by Axiom 1} \qquad (25)$$

$$x^2 + y^2 = 1$$

$$x = \sqrt{1 - y^2}$$

$$\text{and also } y = \sqrt{1 - x^2}$$

$$\begin{aligned} (a + b)^2 &= a^2 + 2ab + b^2 \\ (a + b) \cdot (a - b) &= a^2 - b^2 \end{aligned} \qquad (26)$$

$$\begin{aligned}
x^2 + y^2 &= 1 \\
x &= \sqrt{1 - y^2} \\
\text{and also } y &= \sqrt{1 - x^2} \quad (a + b)^2 = a^2 + 2ab + b^2 \\
&\quad (a + b) \cdot (a - b) = a^2 - b^2
\end{aligned} \tag{27}$$

$$\left. \begin{aligned} B' &= -\partial \times E \\ E' &= \partial \times B - 4\pi j \end{aligned} \right\} \text{Maxwell's equations}$$

$$\begin{aligned} V_j &= v_j & X_i &= x_i - q_i x_j & & = u_j + \sum_{i \neq j} q_i \\ V_i &= v_i - q_i v_j & X_j &= x_j & & U_i = u_i \end{aligned} \tag{28}$$

$$A_1 = N_0(\lambda; \Omega') - \phi(\lambda; \Omega') \tag{29}$$

$$A_2 = \phi(\lambda; \Omega') \phi(\lambda; \Omega) \tag{30}$$

and finally

$$A_3 = \mathcal{N}(\lambda; \omega) \tag{31}$$

Although Mr. Gore has expressed concerns to some associates about the damage a brokered convention could cause, several associates said he was hopeful that one candidate would soon break through, sparing the party such an outcome. He told a close friend recently that his decision not to endorse feels like the right thing and that he remained optimistic the race is going to tip at some point, the friend said.

$$\begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{pmatrix} = \frac{\textit{Opposite}}{\textit{Hypotenuse}} \cos^{-1} \theta \arcsin \theta$$

Although Mr. Gore has expressed concerns to some associates about the damage a brokered convention could cause, several associates said he was hopeful that one candidate would soon break through, sparing the party such an outcome. He told a close friend recently that his decision not to endorse feels like the right thing and that he remained optimistic the race is going to tip at some point, the friend said.

$$p_j = \begin{cases} 0, & \text{if } j \text{ is odd} \\ r!(-1)^{j/2}, & \text{if } j \text{ is even} \end{cases}$$

Although Mr. Gore has expressed concerns to some associates about the damage a brokered convention could cause, several associates said he was hopeful that

one candidate would soon break through, sparing the party such an outcome. He told a close friend recently that his decision not to endorse feels like the right thing and that he remained optimistic the race is going to tip at some point, the friend said.

$$\arcsin \theta = \bigoplus_{\varphi} \lim_{x \rightarrow \infty} \frac{n!}{r!(n-r)!} \quad (1)$$

3 Table

References

- [1] D. E. KNUTH " The T_EXbook " the American Mathematical Society and AddisonC Wesley Publishing Company , 1984-1986.
- [2] Lamport, Leslie, L^AT_EX: " A Document Preparation System ", Addison-Wesley Publishing Company, 1986.

Appendix A

Here are simulation programmes we used in our model as follow.

Input matlab source:

```
function [t,seat,aisle]=OI6Sim(n,target,seated)

% t simulation time
% seat ,seat interference
% aisle ,aisle interference

% Initial data
% setting passengers' Value:
%           walking           .....    1
%           waiting           .....    2
%           putting luggage   .....    3
%           passing the seat  .....    4
%           sitting           .....    0

% on initial time, everyone is waiting,except the first one

seat=0;
aisle=0;

status=2*ones(1,n);
status(1)=1;

pos=-(0:0.6:(n-1)*0.6);
```

```

pri=[-1,1:n-1];
next=[2:n,-1];

RowSpeed=trirnd(0.6,0.95,1.3,1,n);

pab=rand(1,n);
for i=1:n
    if pab(i)<0.4
        aisleTime(i)=0;
    else
        aisleTime(i)=trirnd (3.2,7.1,38.7) ;
    end
end

% seat interference time
seatTime=trirnd (7.4,9.7,15.5) ;

t=0;
while sum(status)~=0

    t=t + 0.1;
    for i=1:n

        switch status(i)
            case {0}

                if next(i)>0 &&abs(status(next(i))-2)<0.1
                    status(next(i))=1;
                end

                % disp('have sit down');

            case {1}

                % disp('Walking');

                if next(i)>0 &&abs(status(next(i))-2)<0.1
                    status(next(i))=1;
                end

                pos(i)=pos(i)+RowSpeed(i)*0.1;

                if abs(pos(i)-target(1,i))<0.2

                    status(i)=3;
                    if abs(aisleTime(i))<0.01
                        aisle=aisle+1;

```



```

        end

        if next(i)>0 &&abs(status(next(i))-1)<0.1

            status(next(i))=2;
        end
    end

case {2}

%           disp('Blocking');
if next(i)>0 &&abs(status(next(i))-1)<0.1

    status(next(i))=2;
end

case {3}           %put luggage   aisle interference

    disp(' aisle _interference ');

    if abs(aisleTime(i))<0.01

        if n==12 && target(2,i)==1 && seated(target(1,i),2)==1
            status(i) = 4;
            seat=seat+1;
        elseif n==12 && target(2,i)==4 && seated(target(1,i),3)==1
            status(i) = 4;
            seat=seat+1;
        else

            status(i)=0;
            seated(target(1,i),target(2,i)) = 1;
        end

    else

        aisleTime(i)=aisleTime(i)-0.1;

    end

case {4}           % seat interference

    if abs(aisleTime(i))<0.01 %
        status(i)=0;
        seated(target(1,i),target(2,i)) = 1;
    else

        seatTime(i)=seatTime(i)-0.1;
    end

```

```
        end %switch
    end %for
end %while
```