A = xlsread('PD.xlsx','Sheet1'); % PD data saved from COMSOL

t = A(:, 1); % frequency

u = A(:, 2); % displacement

B = xlsread('OD.xlsx','Sheet1'); % OD data saved from COMSOL

s = B(:, 1); % frequency

r = B(:, 2); % displacement

plot(t, u, s, r, 'LineWidth',1);

xlim([2000,5000]);

ylim([4e-6,5.2e-6])

xlabel('frequency (Hz)');ylabel('displacement (m) ');

title('frequency & displacement relation');

grid on;

legend('PD', 'OD' );

set(gca,'fontsize', 10);

A = xlsread('time displacement relation.xlsx','Sheet1'); % PD

t = A(:, 1); % time

u = A(:, 2); % displacement

plot(t, u, 'LineWidth',1);

xlim([0,1e-3]);

ylim([-0.5e-5,1.5e-5])

xlabel('time (s)');ylabel('displacement (m) ');

title('time & displacement relation');

grid on;

set(gca,'fontsize', 10);

A = xlsread('F\_app displacement relation.xlsx','Sheet1'); % PD

t = A(:, 1); % Force

u = A(:, 2); % displacement

plot(t, u, 'LineWidth',1);

xlim([0,10]);

ylim([0,0.43])

xlabel('Force(N)');ylabel('displacement (m) ');

title('Force & displacement relation');

grid on;

set(gca,'fontsize', 10);