
Reader cylindrical coordinate 2D

```
clear all
A0 = importdata('out0.txt');
A1 = importdata('out2.txt');
%A2 = importdata('out2.txt');
%A3 = importdata('out3.txt');

nr = 100%A3(1);
nz = 200%A3(2);

Ntime = 1%A3(3);
snap = 12%A3(4);%1;%

Nsnap = snap;%floor(Ntime/snap);

r = A0(1:nr);
z = A0(nr+1:nz+nr);

[R Z] = meshgrid(r,z);

r0=0;

nr =

    100

nz =

    200

Ntime =

     1

snap =

    12

%aviobj = avifile('GEWP_C2D.avi');
scrsz = get(0,'ScreenSize');
fig=figure('Position',[1 scrsz(4) scrsz(3)*0.5 scrsz(4)*0.5],...
'Color','w');
xmin = 0;
xmax = 24;
ymin = -15;
ymax = 15;
for j=1:Nsnap
    % clf
    figure
    PHI=reshape(A1(1+nr*nz*(j-1):nr*nz*j),nz,nr);

%for jmovie=1:3
    % subplot(5,3,j)
    surf(R,Z,log10(PHI+1e-8),...
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        'FaceColor','interp',...
        'EdgeColor','none')

view(2)
axis tight

h=gca;
set(h,'fontsize',16)

ylabel('z (a.u.) ','fontsize',16)%,'fontweight','b')
xlabel('\rho (a.u.) ','fontsize',16)%,'fontweight','b')
hold on
plot3([0 max(r)],[0 0],[1 1]*(1),'Color','w')
plot3([r0 r0],[min(z) max(z)],[1 1]*(1),'Color','w')

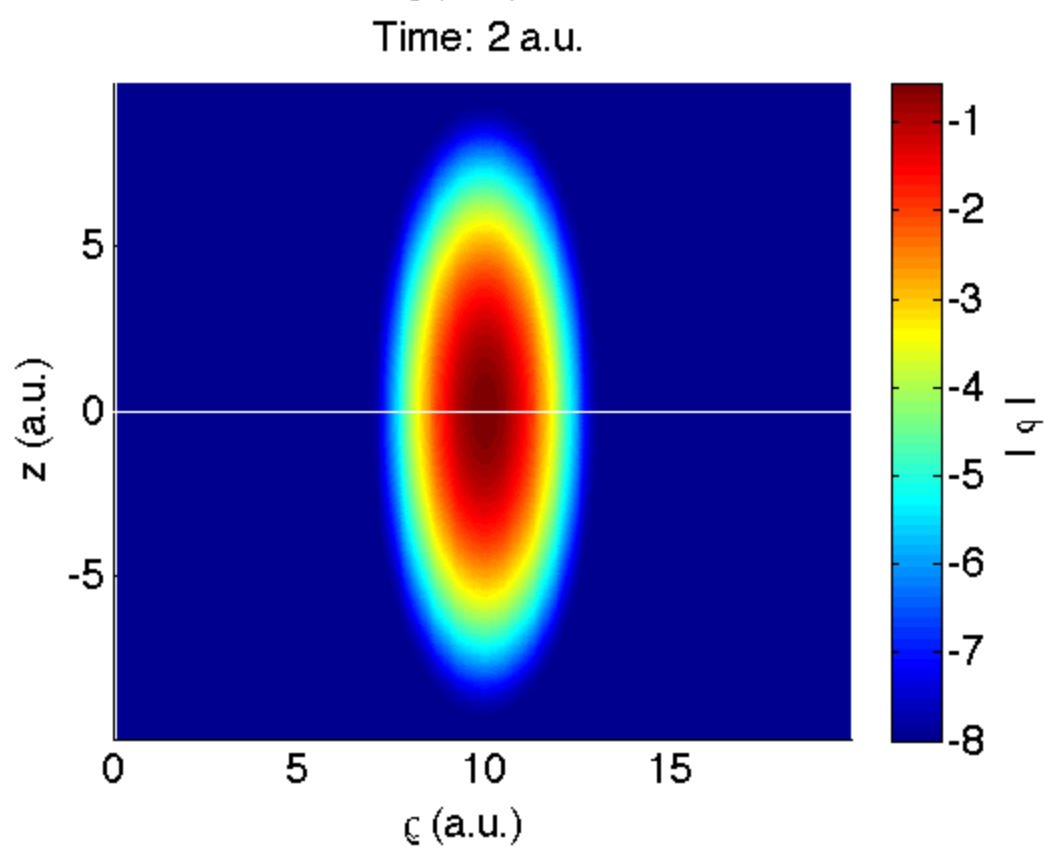
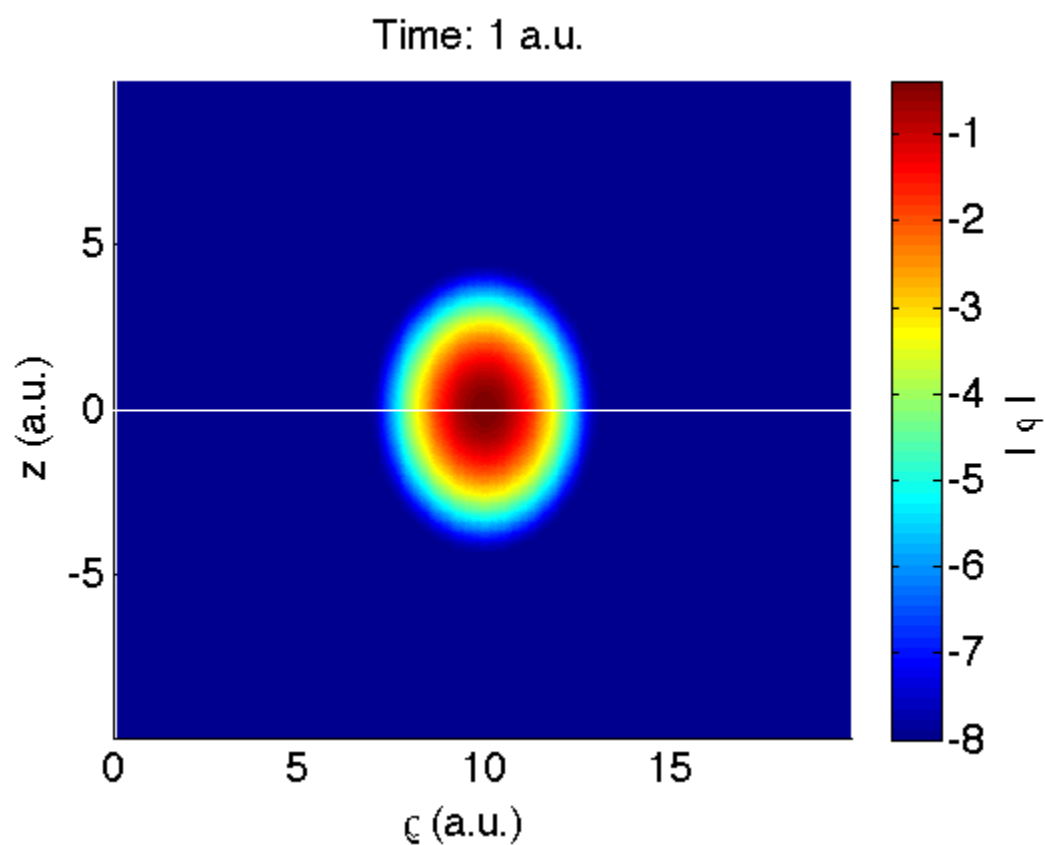
h = colorbar('location','EastOutside');
set(get(h,'YLabel'),'String','| \phi | ','...
    'fontsize',16)%,'fontweight','b');
%caxis([-12 0])
title(['Time: ',num2str(1.*j),' a.u.'],'fontsize',16)
% title(['Time: ',num2str(A2(j)),' a.u.'],'fontsize',16)
axis tight
% xlim([xmin xmax])
% ylim([ymin ymax])

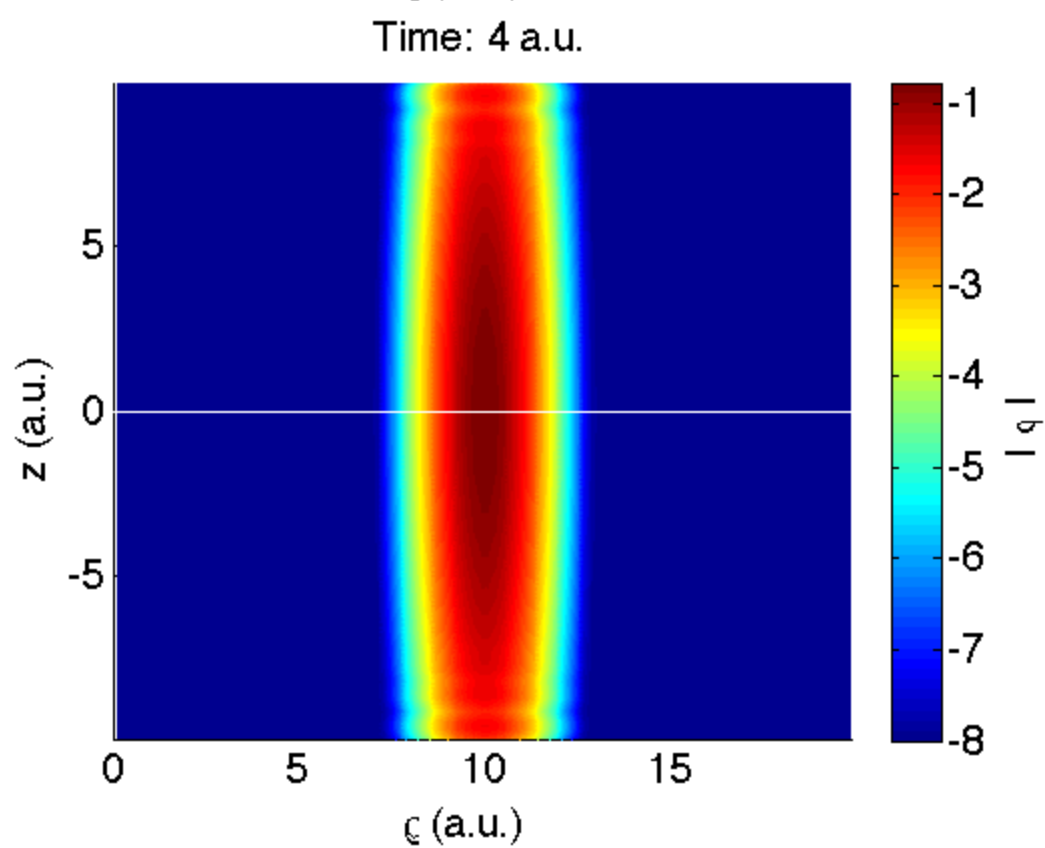
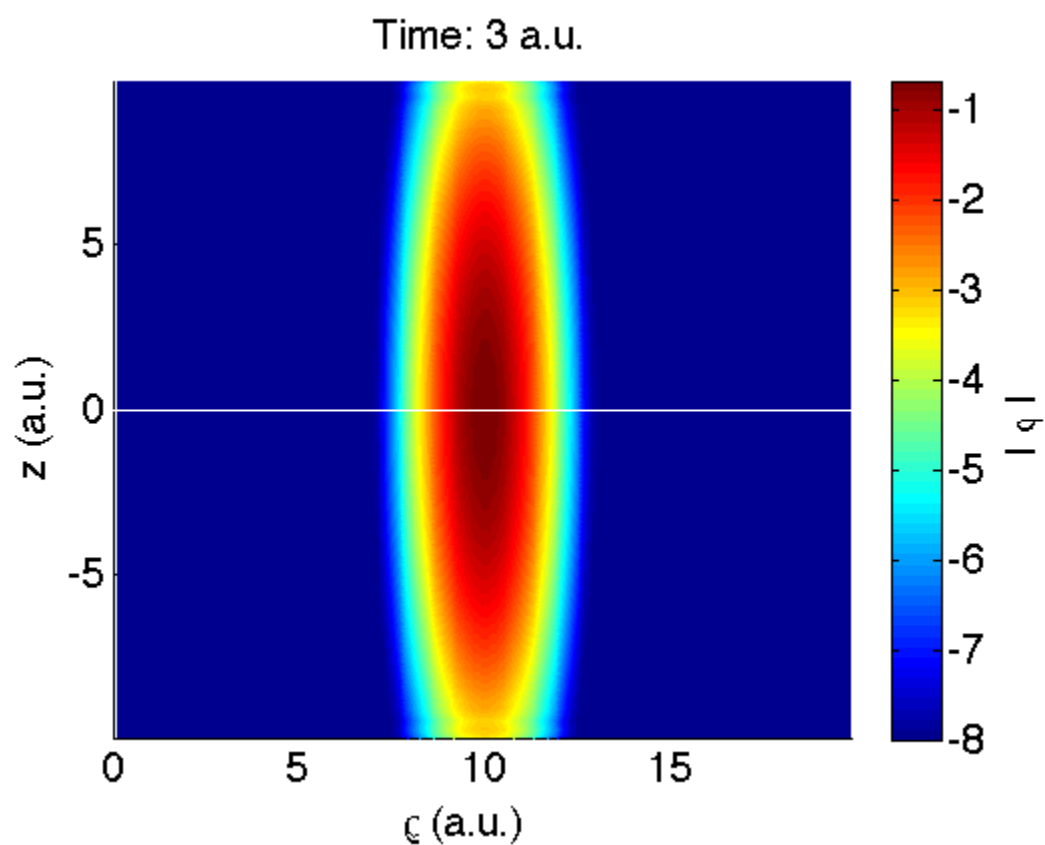
h=gca;
set(h,'fontsize',16)

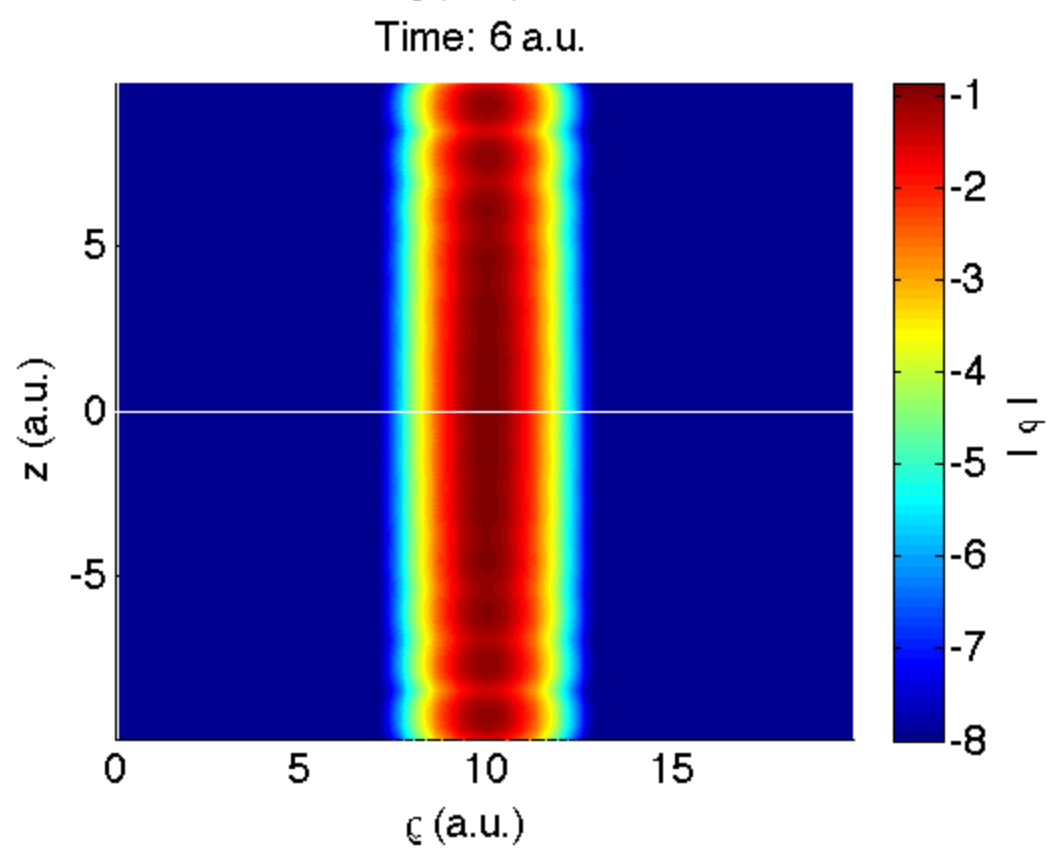
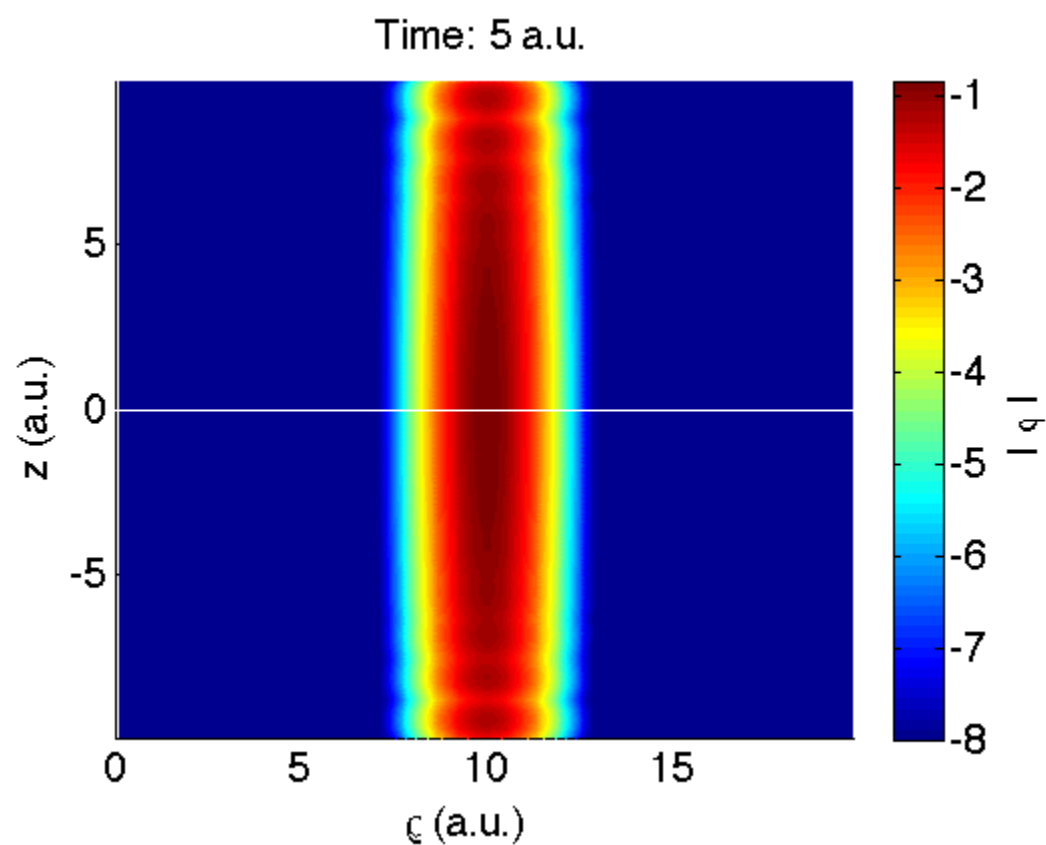
%caxis([-6 -1])
% F = getframe(fig);
% aviobj = addframe(aviobj,F);
%end
pause(0.2)
% display(j);
end

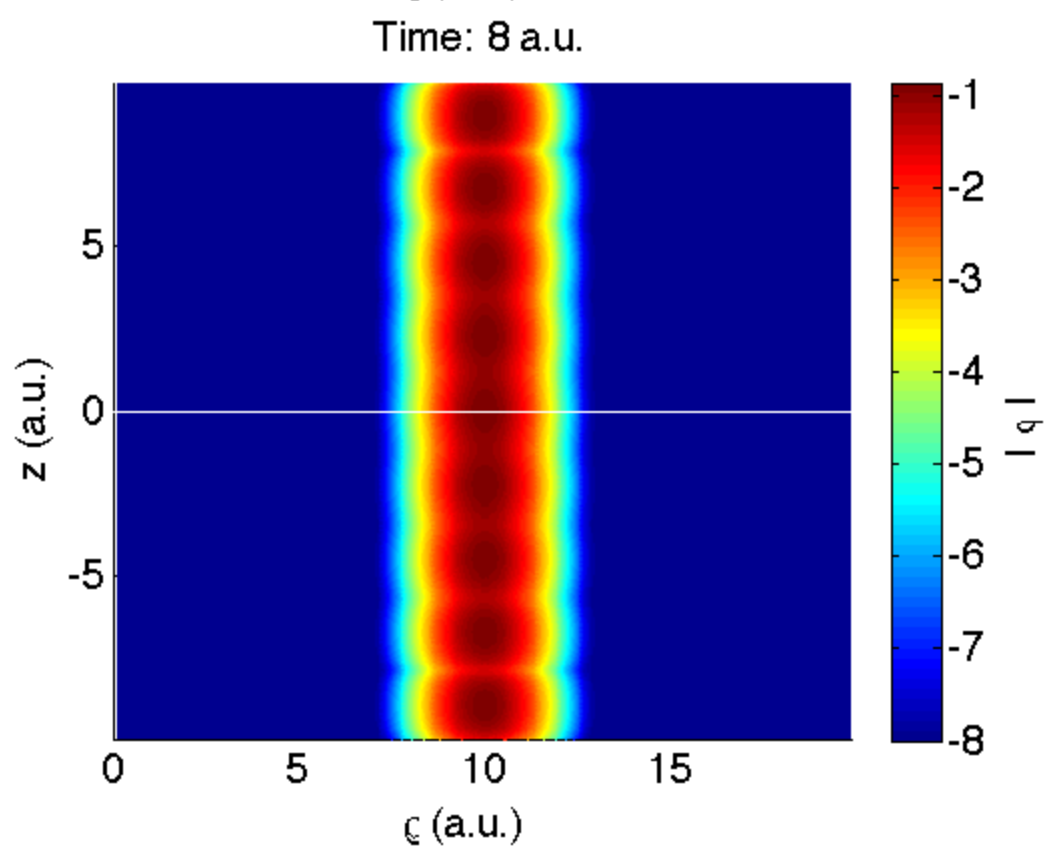
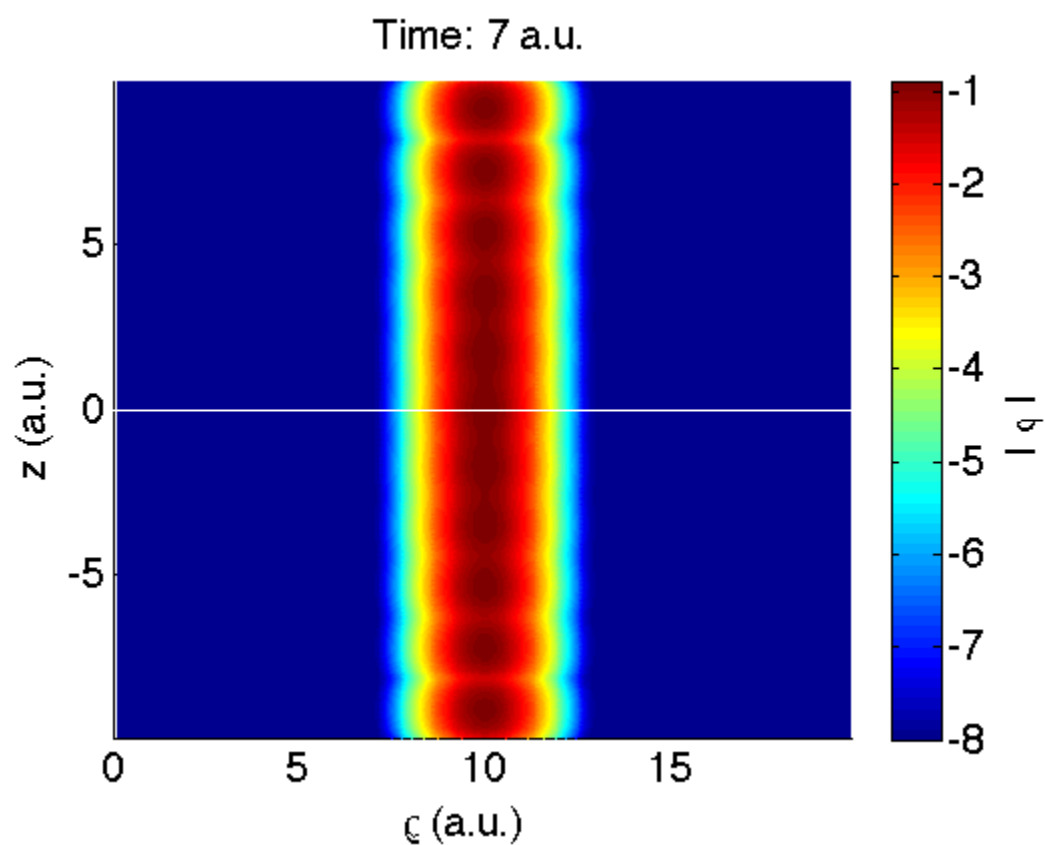
%aviobj = close(aviobj);

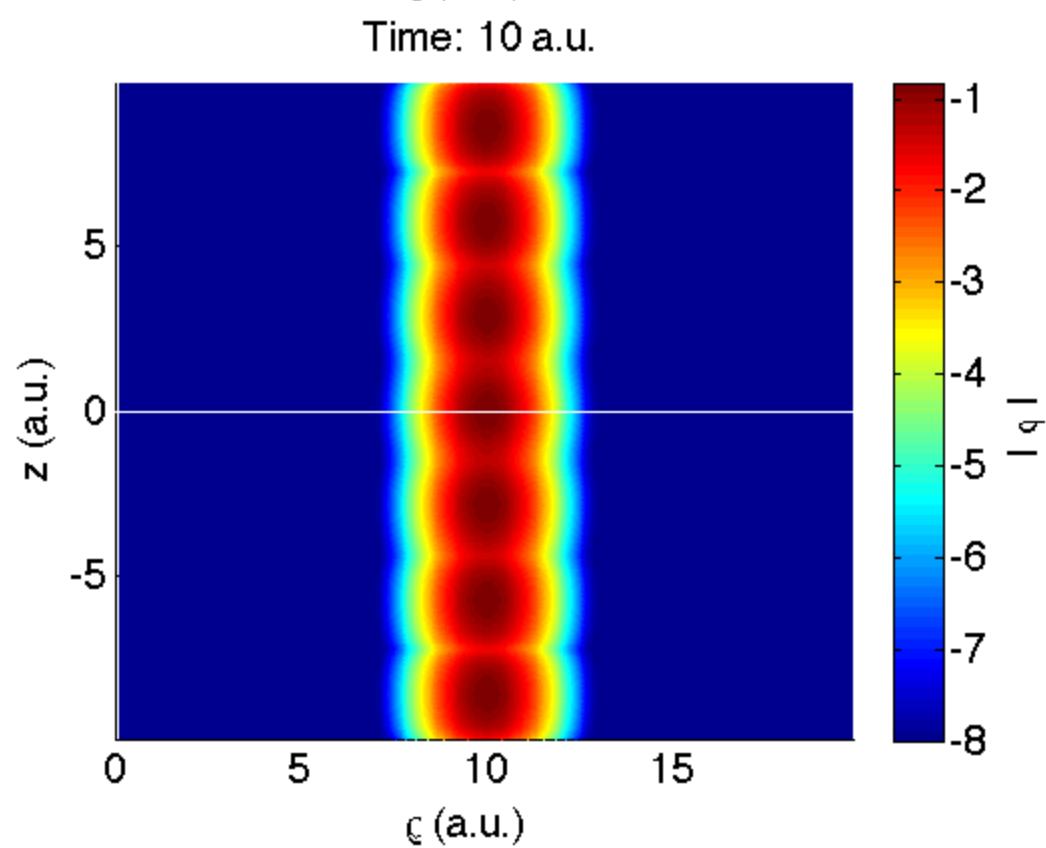
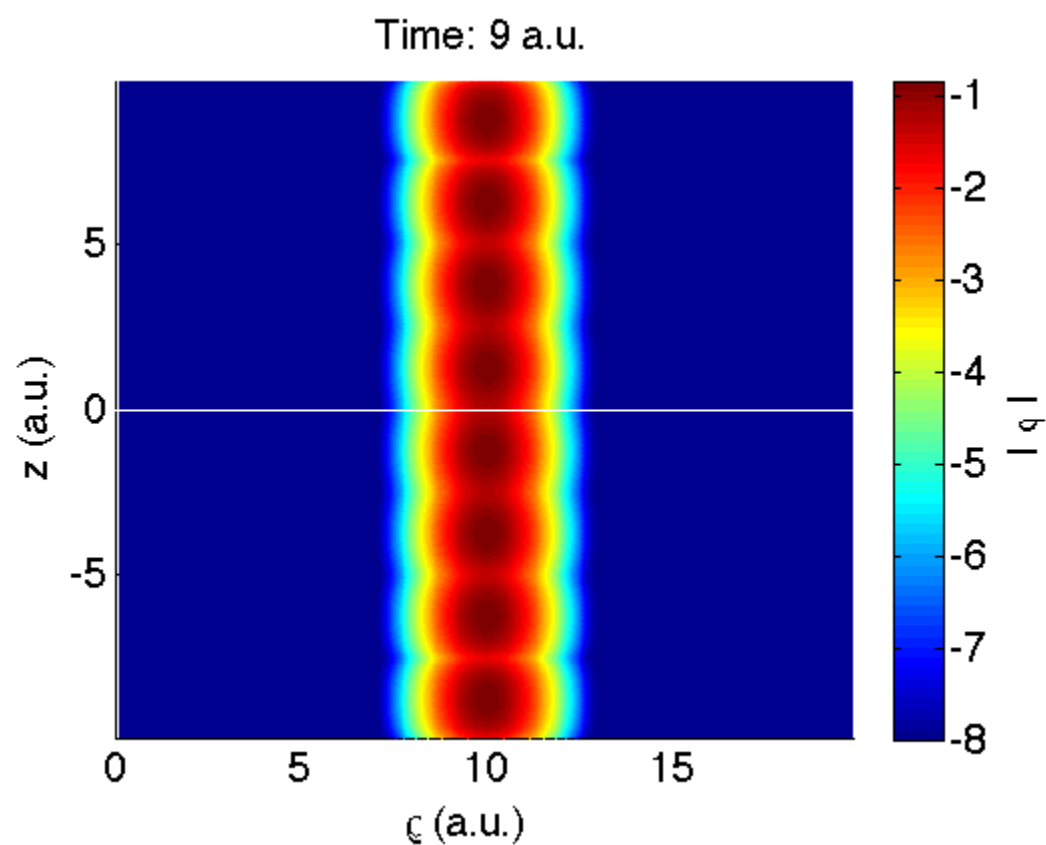
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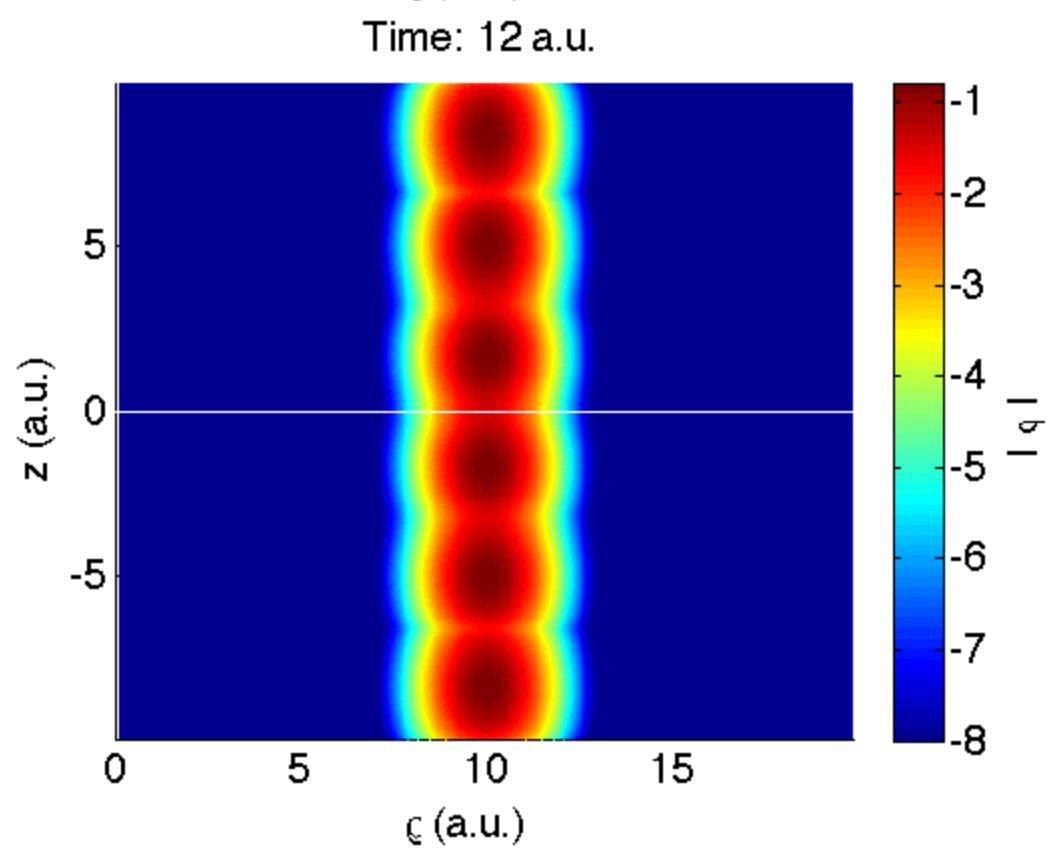
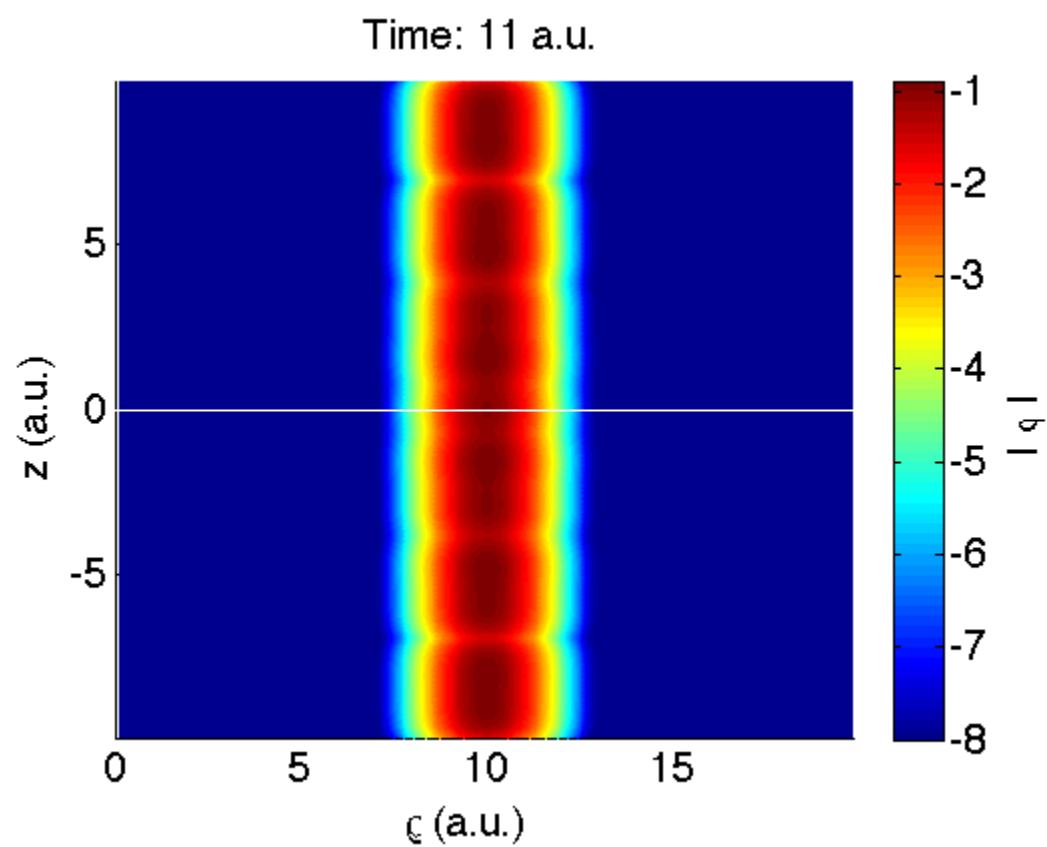












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