
Reader cylindrical coordinate 2D

```
clear all
ax = importdata('axis.txt');
%A0 = importdata('out0.txt');
A1 = importdata('out1.txt');

nr = 520
nz = 680

Ntime = 1000
snap = 20

Nsnap = 20;%floor(Ntime/snap);

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

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

r0=0;

nr =
    520

nz =
    680

Ntime =
    1000

snap =
    20

xmin = 0;
xmax = 24;
ymin = -15;
ymax = 15;

% scrsz = get(0,'ScreenSize');
% figure('Position',[1 scrsz(4)/2 scrsz(3)/2. scrsz(4)/1.7],...
% 'Color','w');

for j=1:Nsnap

    %clf

    scrsz = get(0,'ScreenSize');
```

```

figure('Position',[1 scrsz(4)/2 scrsz(3)/2. scrsz(4)/1.7],...
       'Color','w');

PHI=reshape(A1(1+nr*nz*(j-1):nr*nz*j),nz,nr);

%for jmovie=1:3
% subplot(5,3,j)
surf(log10(PHI+1e-8),...
     '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')

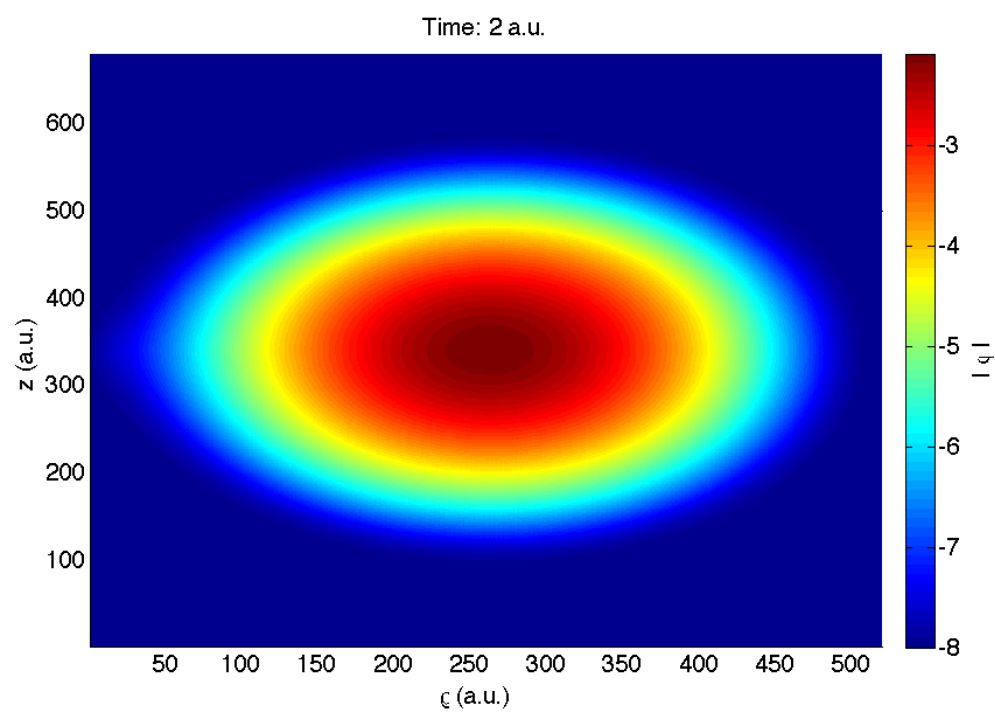
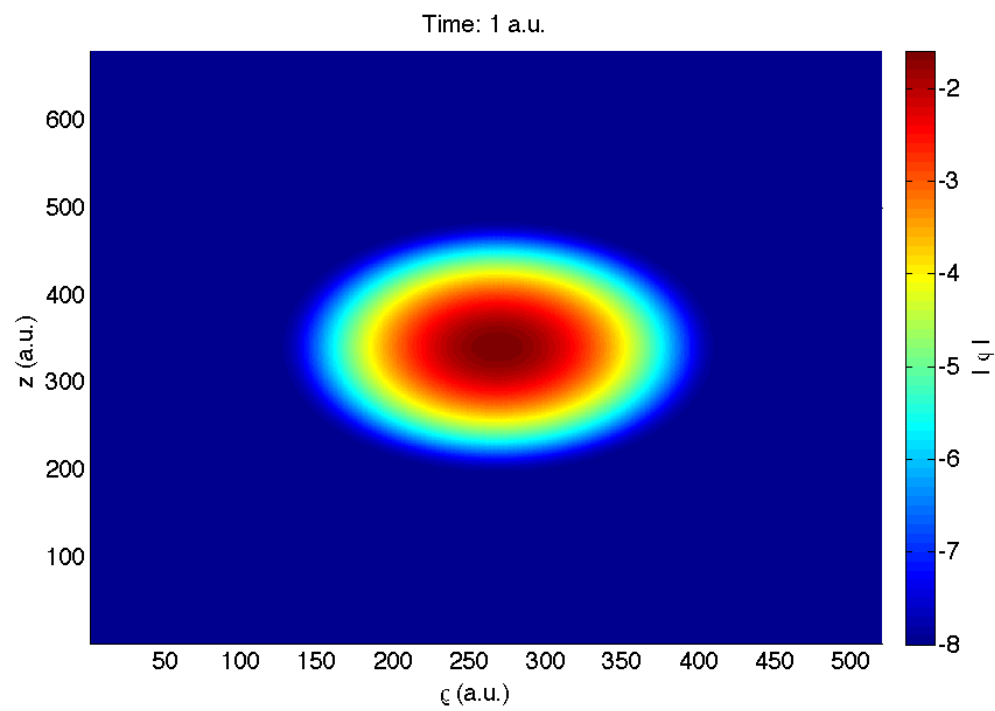
h = colorbar('location','EastOutside');
set(get(h,'YLabel'),'String','| \phi | ',...
    'fontsize',16)%,'fontweight','b');
%caxis([-12 0])
title(['Time: ',num2str(1.*j),' a.u.'],'fontsize',16)
% title(['Time: ',num2str(A2(j)),' a.u.'],'fontsize',16)
axis tight
% xlim([xmin xmax])
% ylim([ymin ymax])

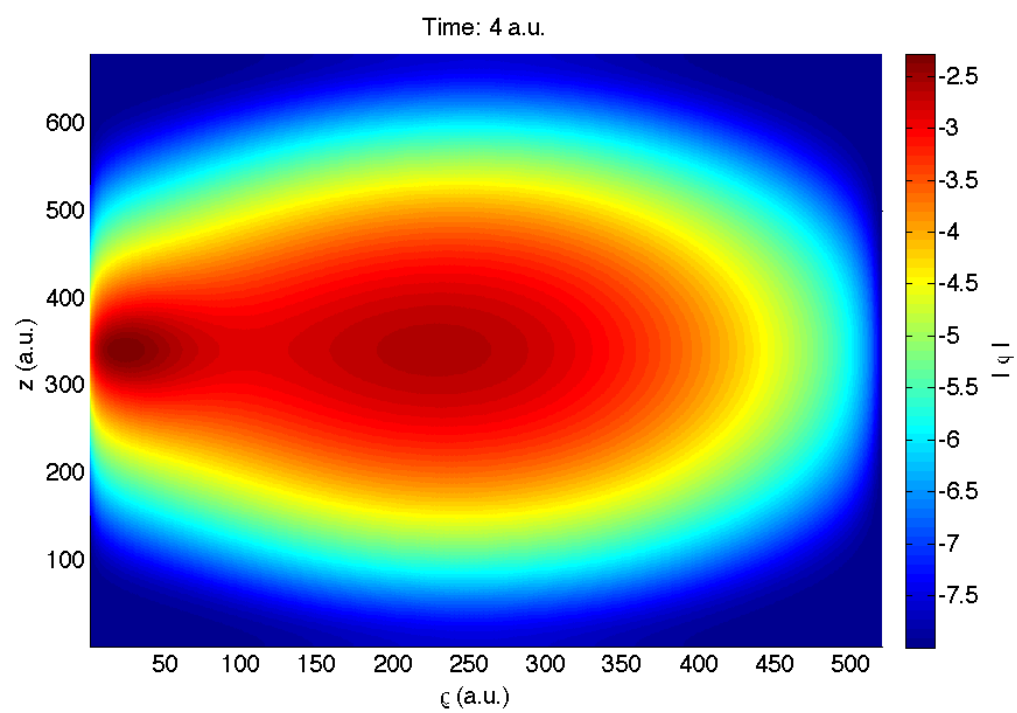
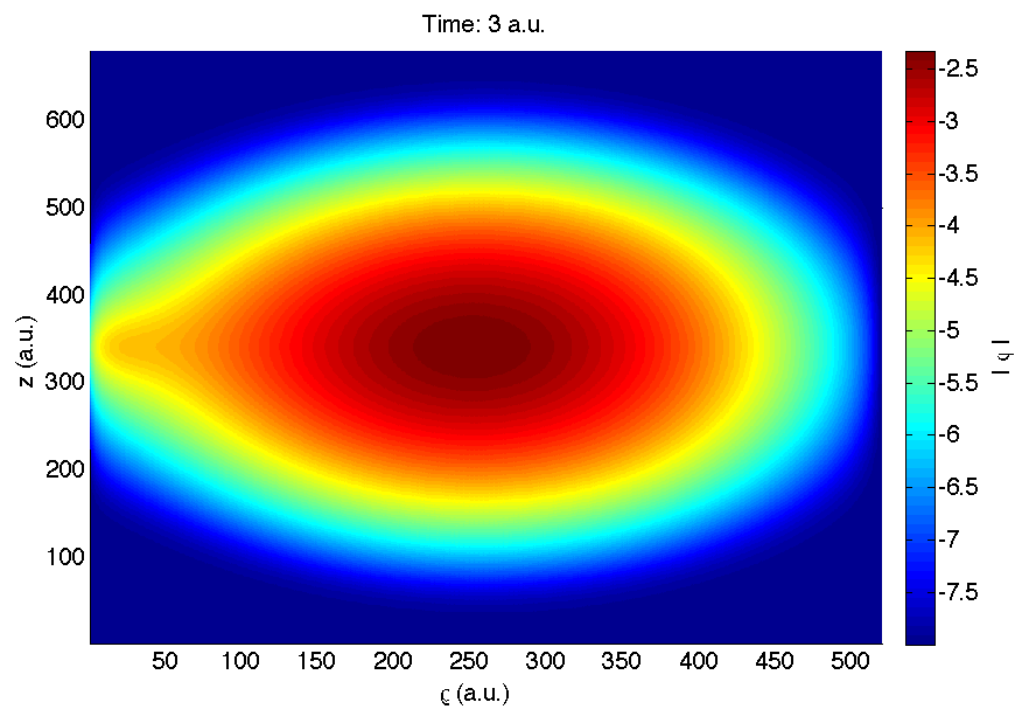
h=gca;
set(h,'fontsize',16)

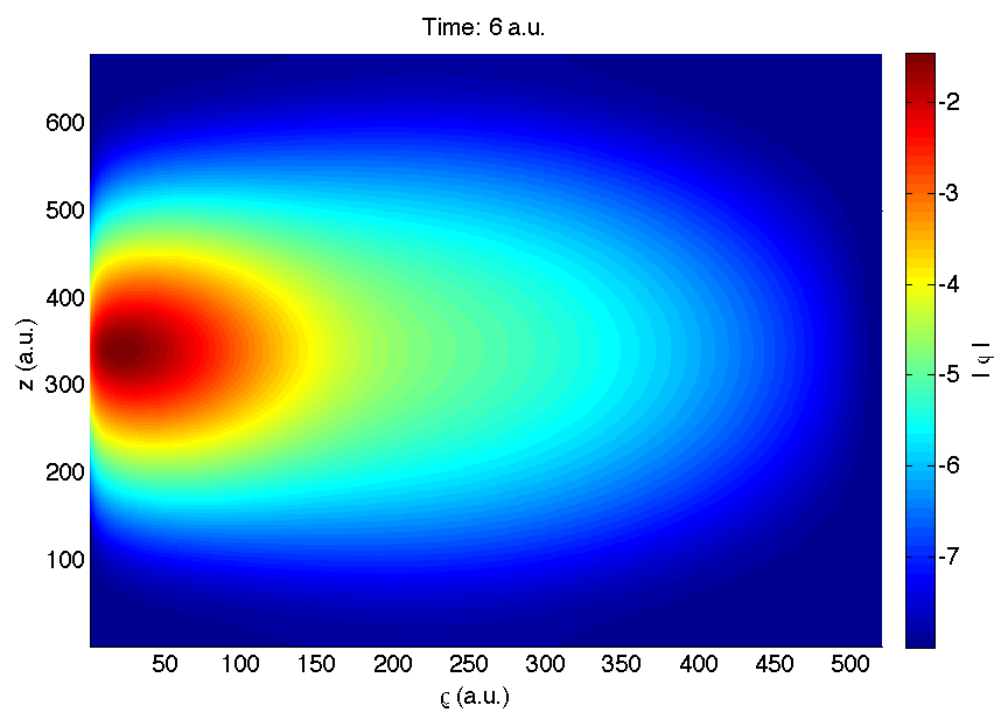
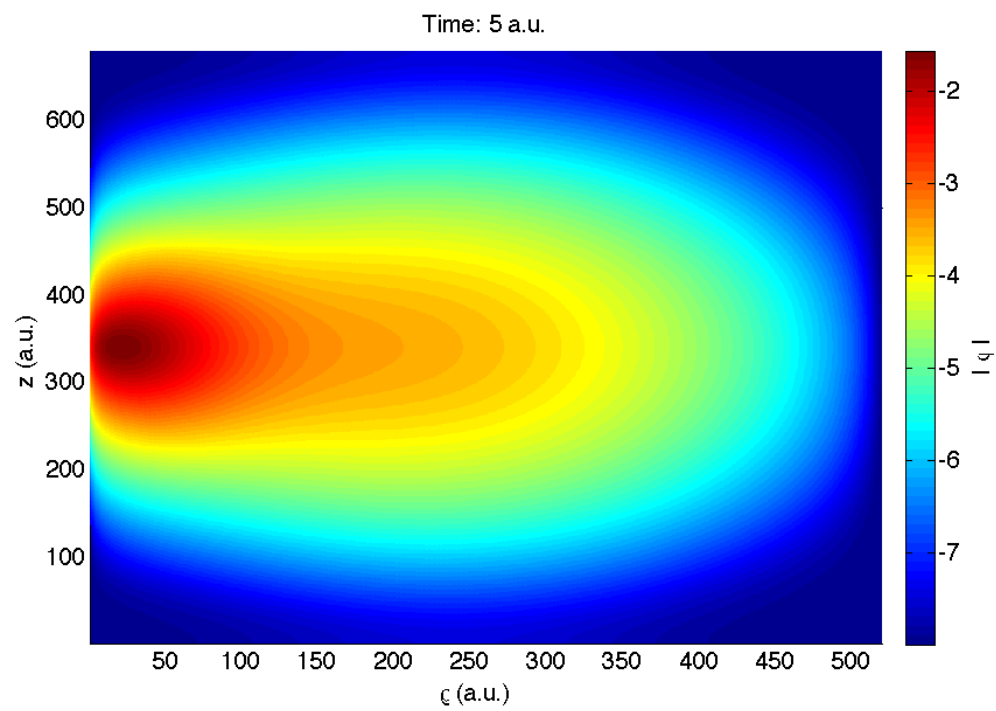
%caxis([-6 -1])
% F = getframe(fig);
% aviobj = addframe(aviobj,F);
%end
pause(0.2)
% display(j);
end

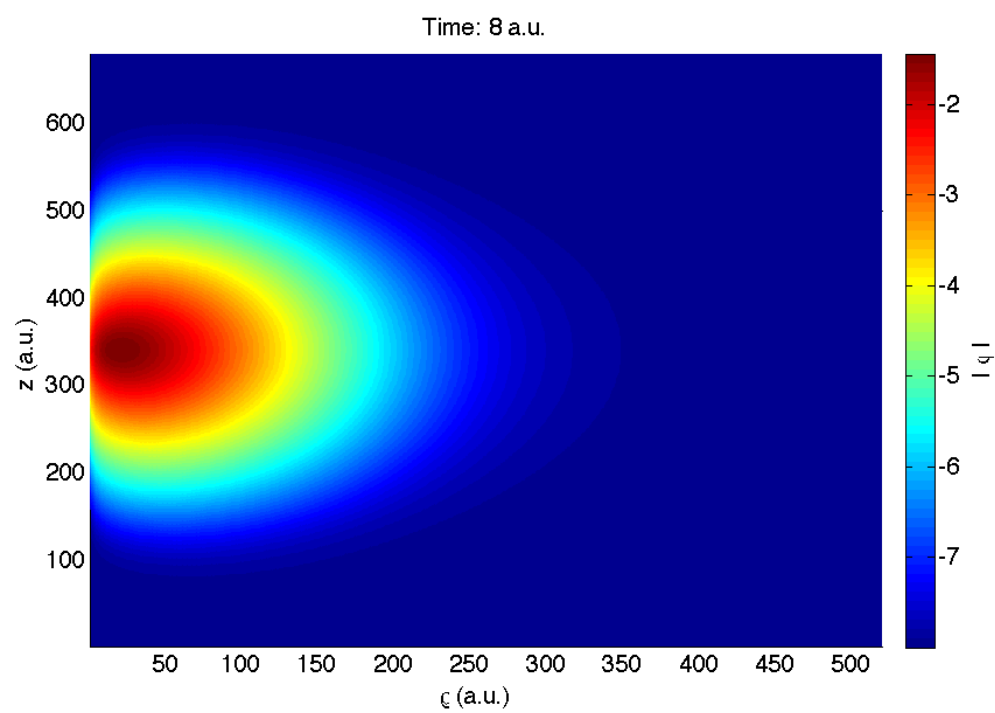
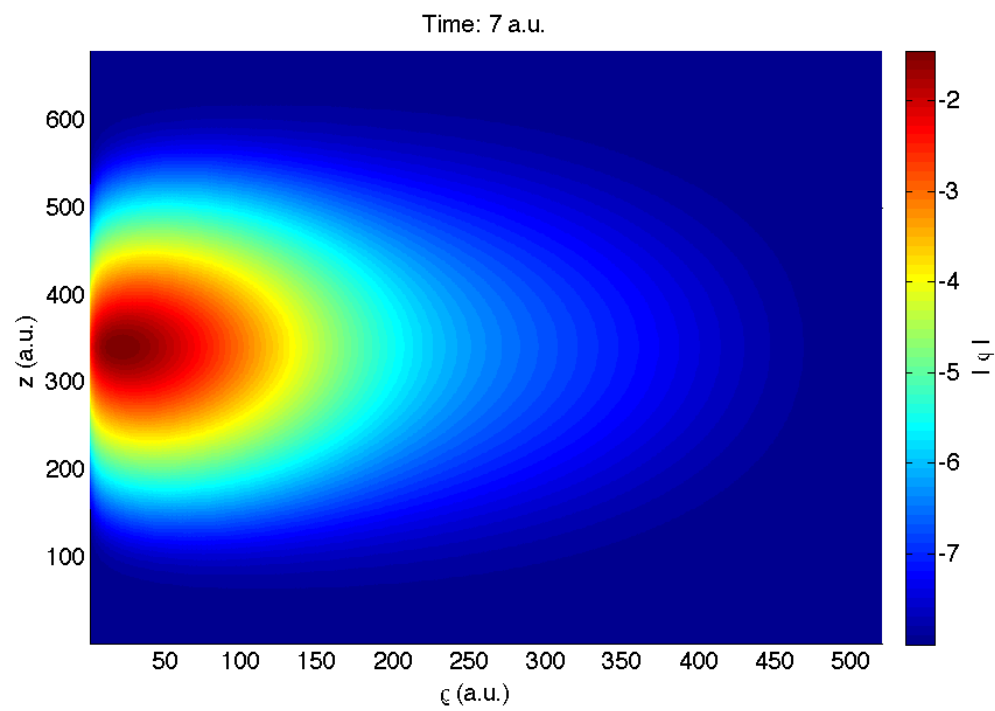
%aviobj = close(aviobj);

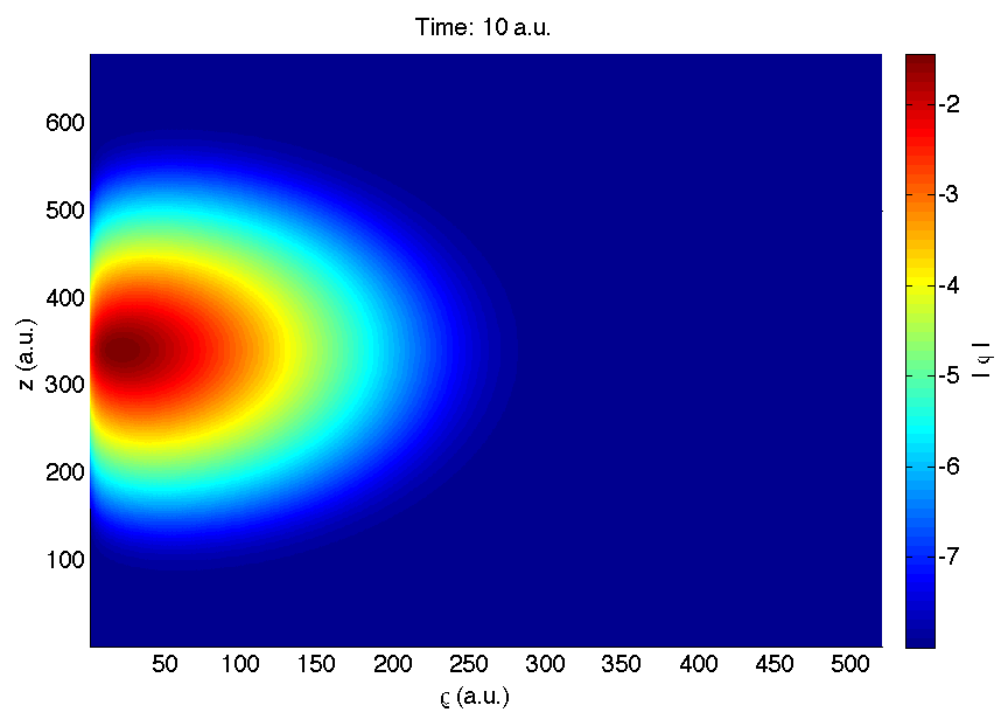
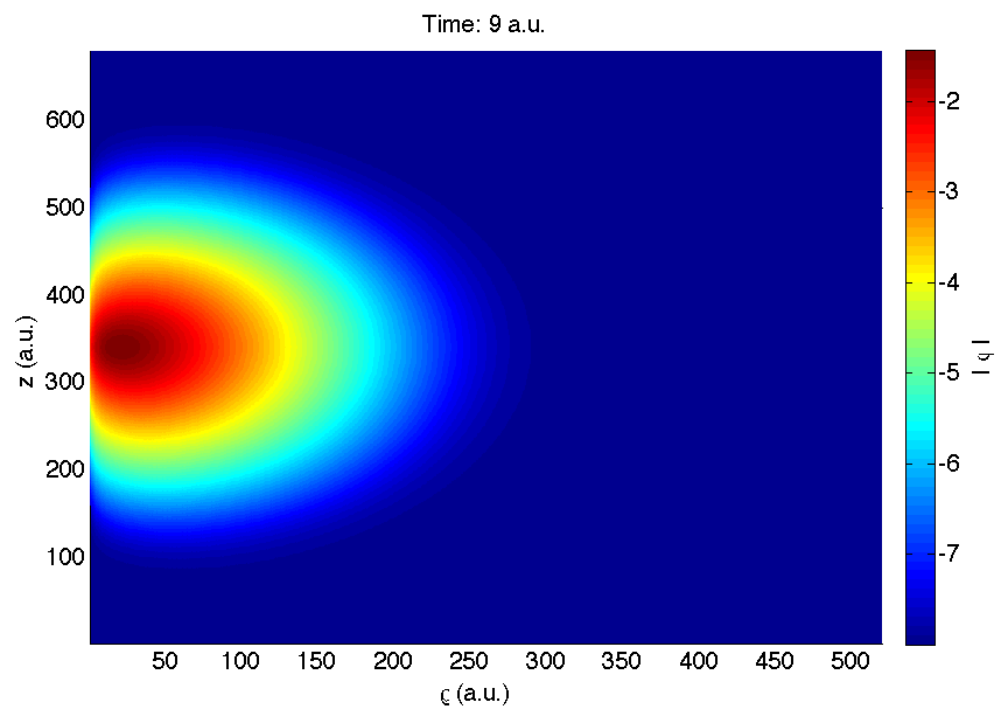
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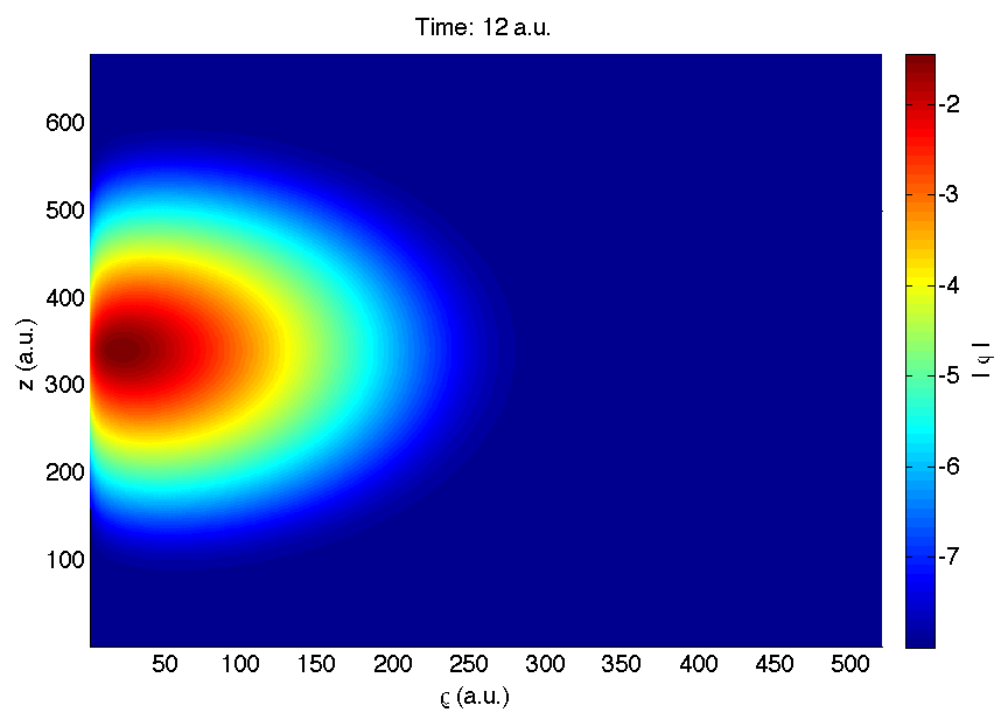
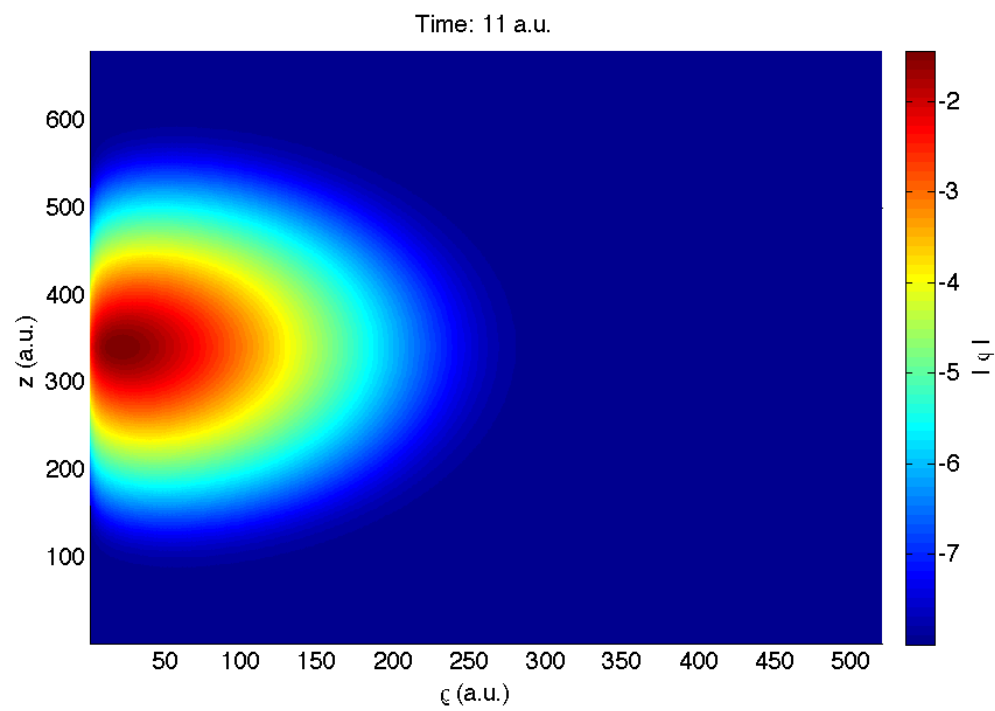


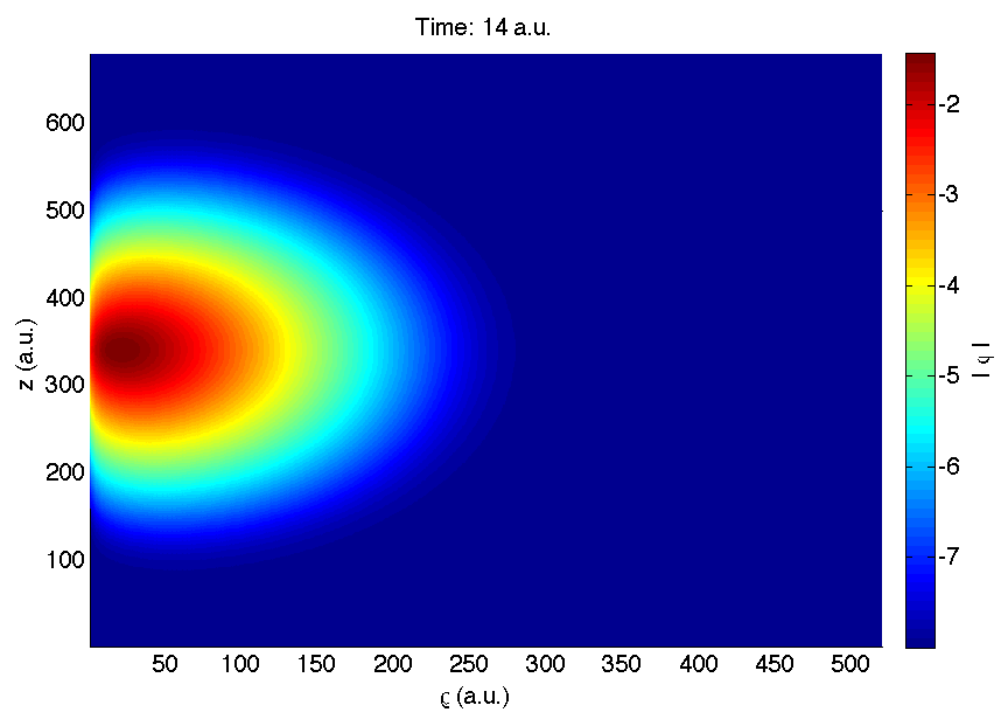
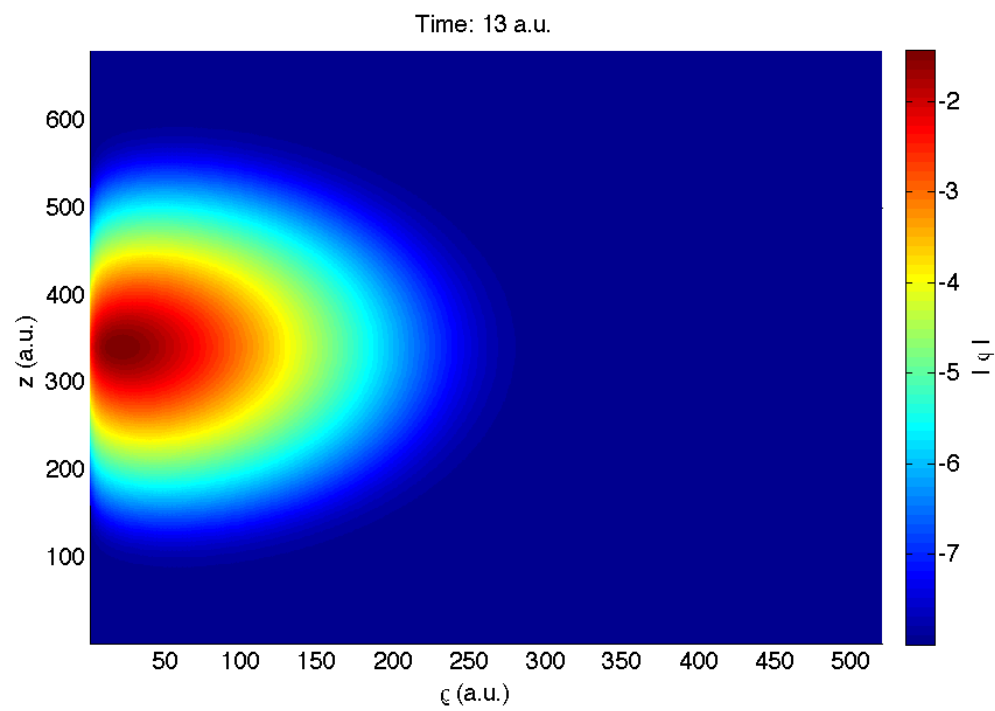


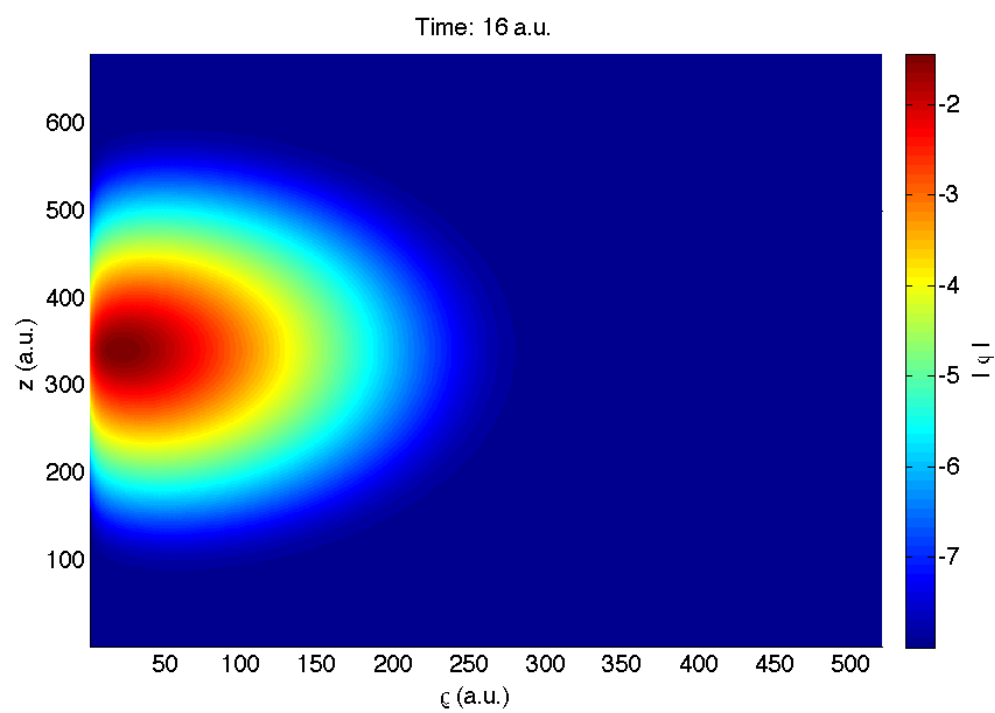
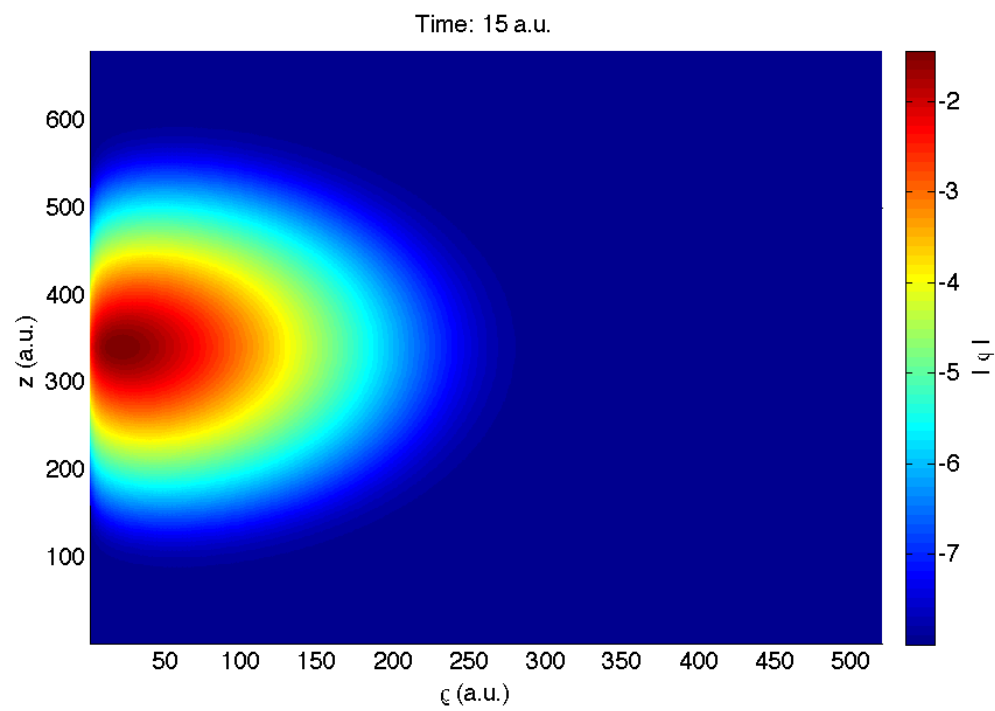


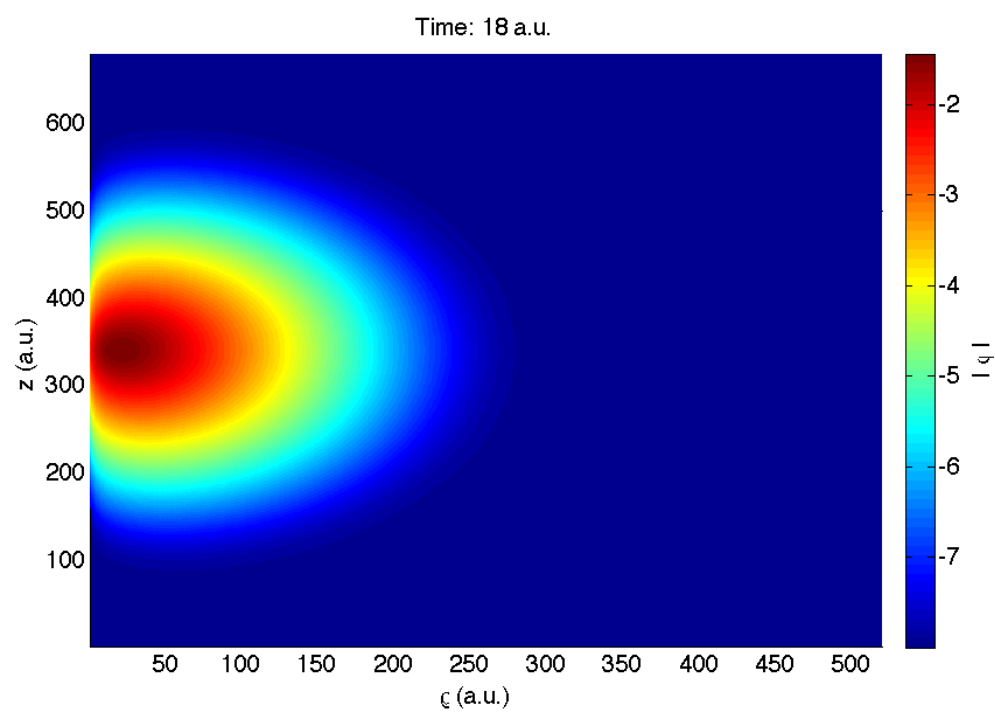
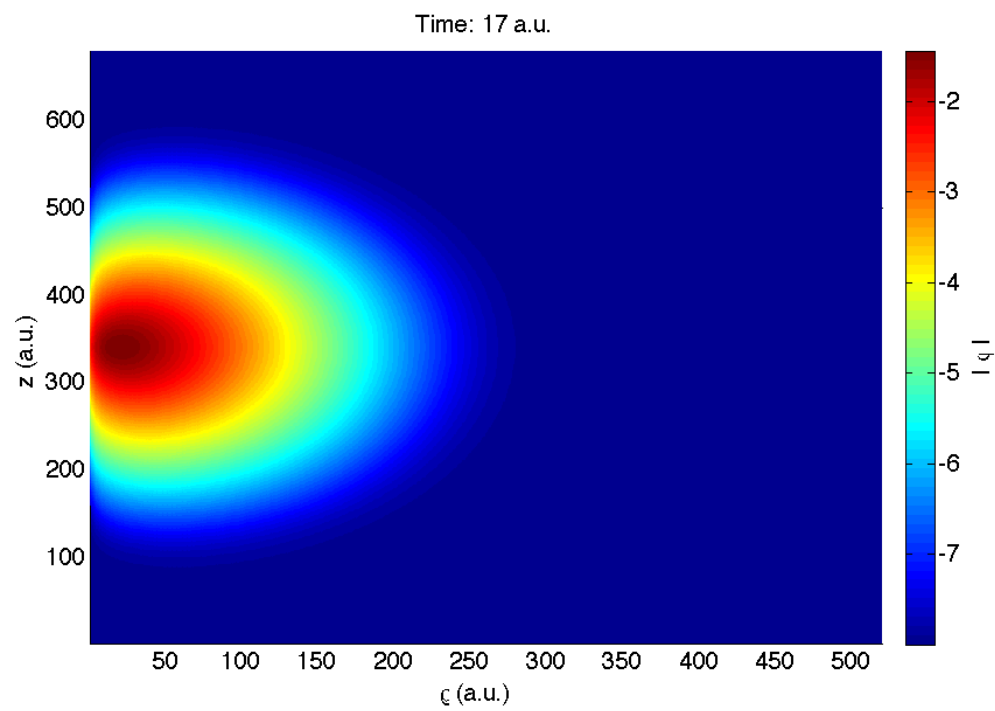


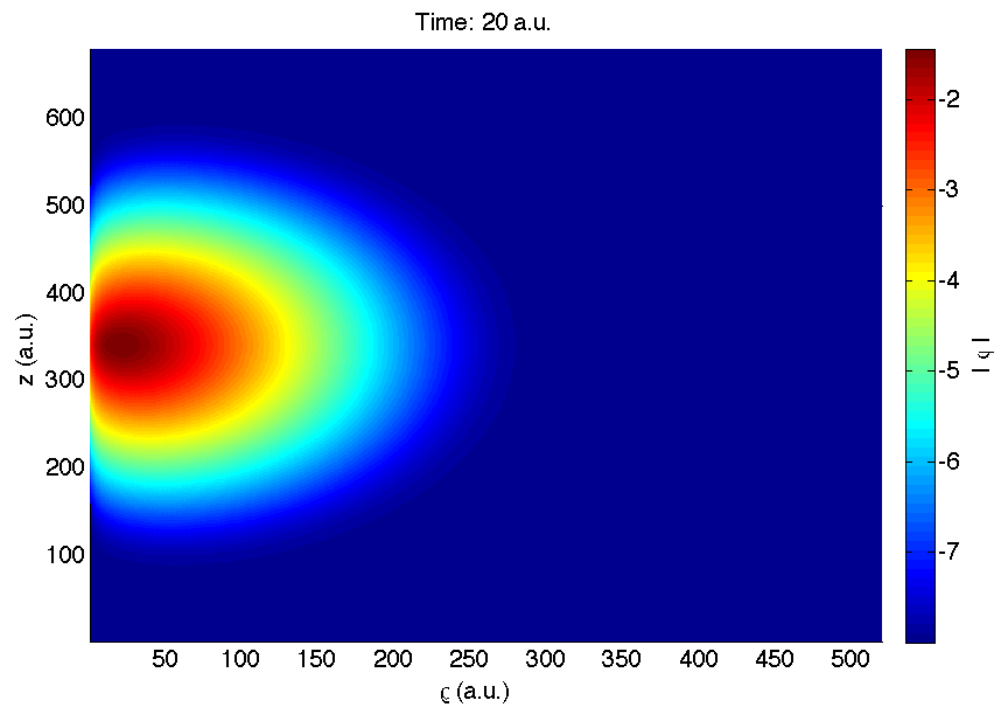
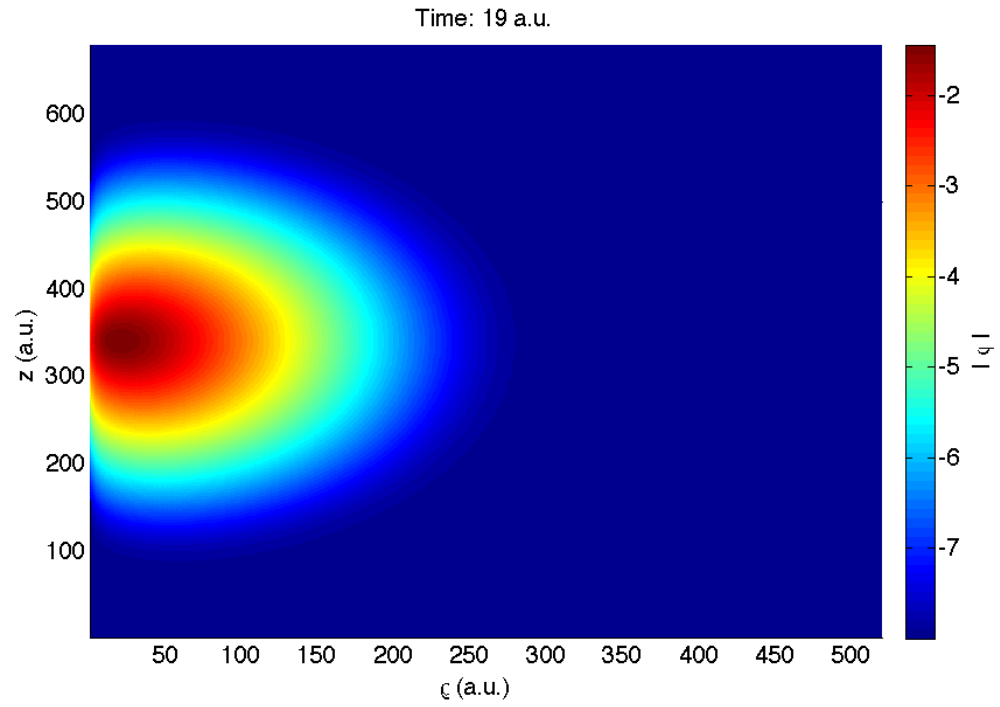












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