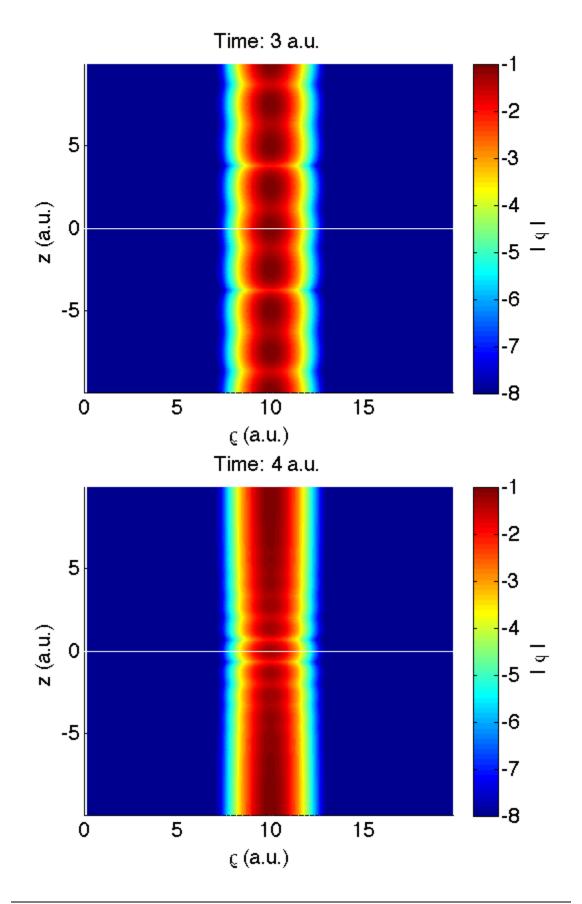
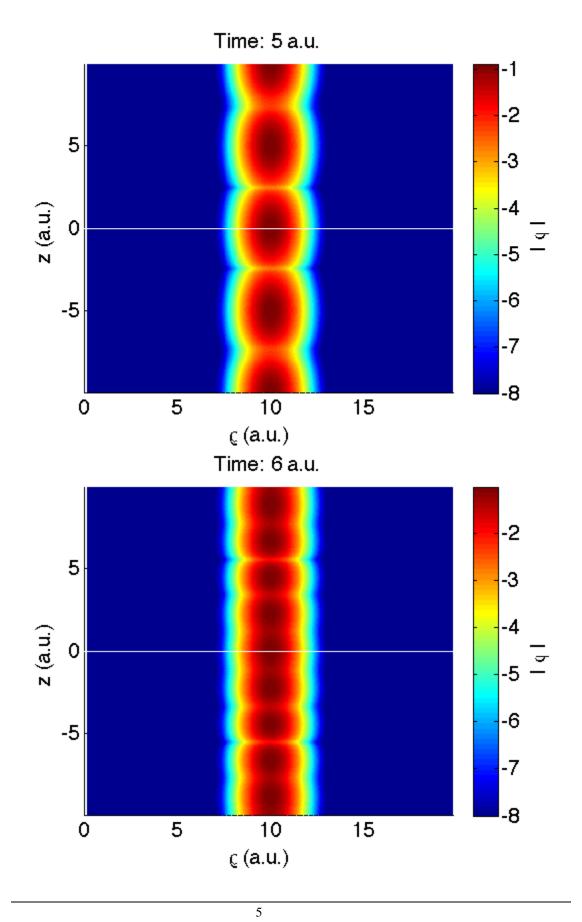
## Reader cylindrical coordinate 2D

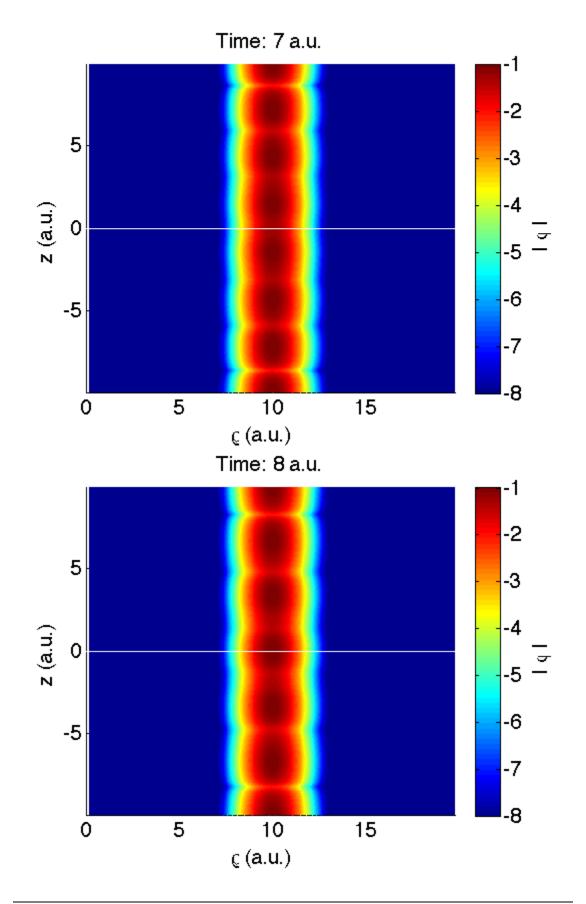
```
clear all
A0 = importdata('out0.txt');
A1 = importdata('out2.txt');
%A2 = importdata('out2.txt');
%A3 = importdata('out3.txt');
nr = 100%A3(1);
nz = 200%A3(2);
Ntime = 1%A3(3);
snap = 12%A3(4);%1;%
Nsnap = snap;%floor(Ntime/snap);
r = A0(1:nr);
z = A0(nr+1:nz+nr);
[R Z] = meshgrid(r,z);
r0 = 0;
nr =
   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)
    surfc(R,Z,log10(PHI+1e-8),...
```

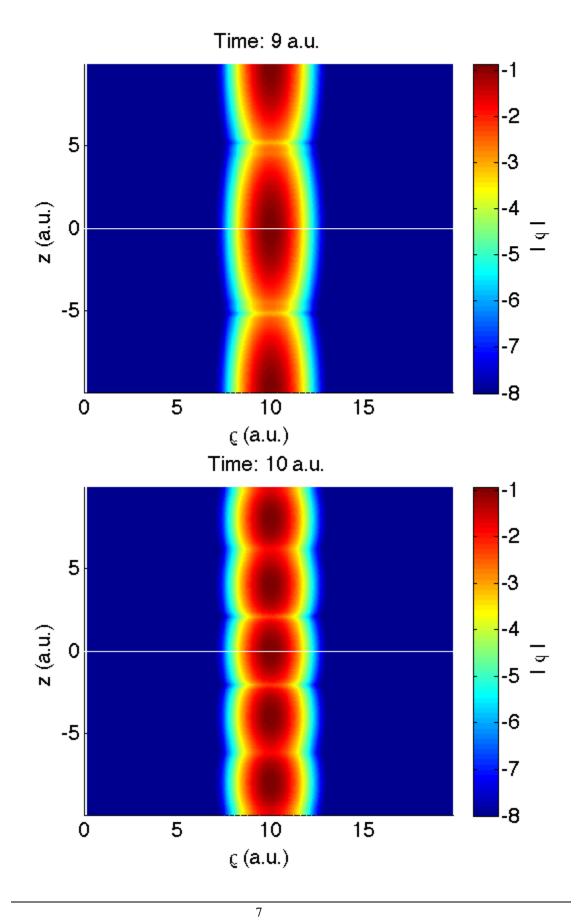
```
'FaceColor','interp',...
'EdgeColor','none')
    view(2)
    axis tight
    h=gca;
    set(h, 'fontsize', 16)
    ylabel('z (a.u.) ','fontsize',16)%,'fontweight','b')
    xlabel('\rho (a.u.) ','fontsize',16)%,'fontweight','b')
    hold on
    plot3([0 max(r)],[0 0],[1 1]*(1),'Color','w')
    plot3([r0 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);
```

Time: 1 a.u. -1 -2 5 -3 z (a.u.) 0 -5 -6 -5 -7 Ō 5 10 15 € (a.u.) Time: 2 a.u. -2 5 -3 z (a.u.) 0 -6 -5 -7 ō 5 10 15 ç (a.u.)

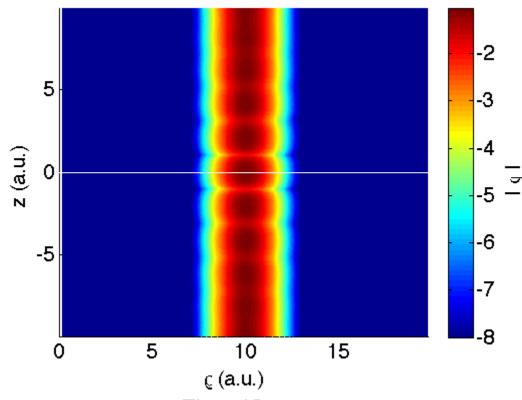












Time: 12 a.u.

