```
clear;

cs = crystalSymmetry('cubic');
ss = specimenSymmetry('mmm');
```

```
b = Miller(1,-2,1,cs,'UVW');
n = Miller(1,1,1,cs,'HKL');
sSPartial = slipSystem(b,n);
sSFull = slipSystem.fcc(cs);
sS = [sSFull;sSPartial];
sSAll = sS.symmetrise;
```

Full slip means only full slip, similarly partial and twin means both ways partial and one way partial respectively

```
Full = 1:24;
Partial = 25:48;
Twin = [25,26,27,31,32,34,37,38,40,43,44,46];
% sSAll.CRSS(1:24) =1e5; % This suppresses full slip
sSAll.CRSS(Partial) =1e5; % This suppresses partial slip
```

If you want to load data from a text file. If not on the path then addpath

```
% load sol500.txt;
% eul_ini = sol500*degree;
```

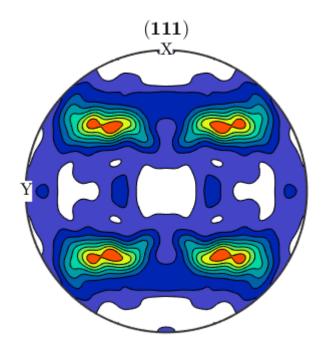
If you want to input a grid data from euler space

```
% phi1_id = 0;
% phi_id = 0;
% phi2_id = 0;
% range = 10;
% range = 2.5;
% eul_ini = grid2euler(phi1_id, phi_id, phi2_id, range, spacing);
```

If you want to just input an orientation defined by euler angles

```
eul_ini = [5, 5 ,0];
```

```
ori = orientation('Euler',eul_ini,cs,ss);
plotPDF(ori,Miller({1,1,1},cs),'contourf','complete')
```



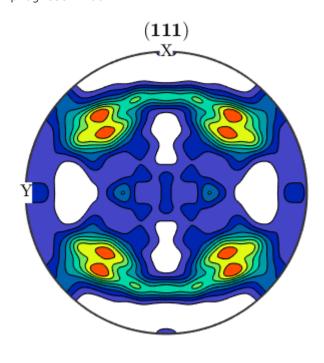
```
q = 0; % Rolling velocity gradient
% epsilon = 1* tensor.diag([1 -q -(1-q)], 'name', 'strain'); % Wrong syntax
epsilon = 3 * tensor(diag([1 -q -(1-q)]), 'name', 'strain');
epsilon.CS = ss;
%
numIter = 15;
progress(0,numIter);
```

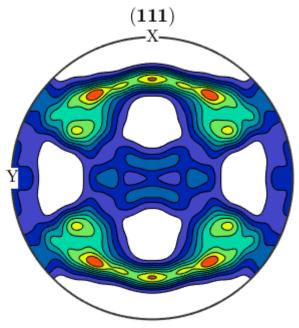
progress: 0%

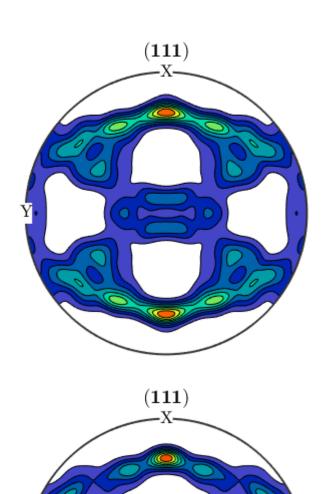
```
for sas=1:numIter
% compute the Taylor factors and the orientation gradients
[M,~,mori] = calcTaylor(inv(ori) * epsilon ./ numIter, sSAll,'silent');% [M,b,mori]
% rotate the individual orientations
ori = ori .* mori;
progress(sas,numIter);
figure
plotPDF(ori,Miller({1,1,1},cs),'contourf','complete')
end
```

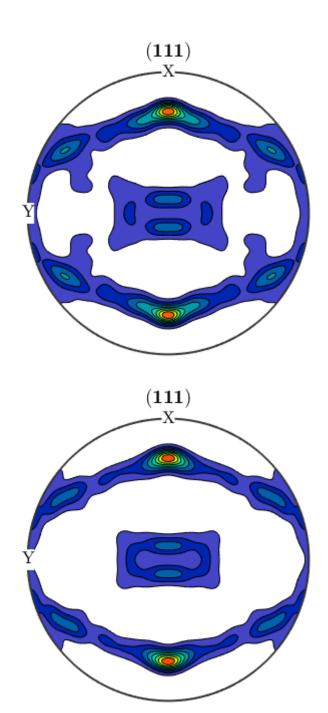
progress: 7%
progress: 13%
progress: 20%
progress: 27%
progress: 33%
progress: 40%
progress: 47%
progress: 53%

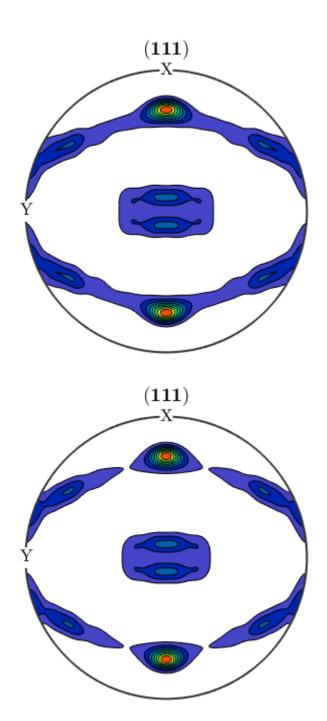
progress: 60% progress: 73% progress: 80% progress: 87% progress: 93% progress: 100%

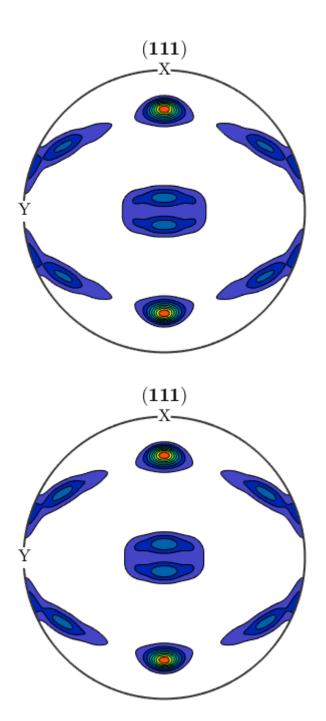


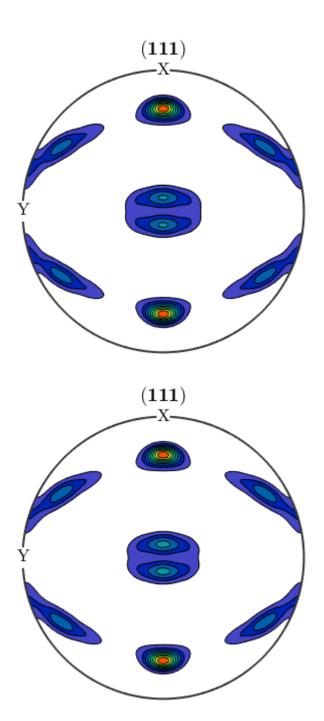


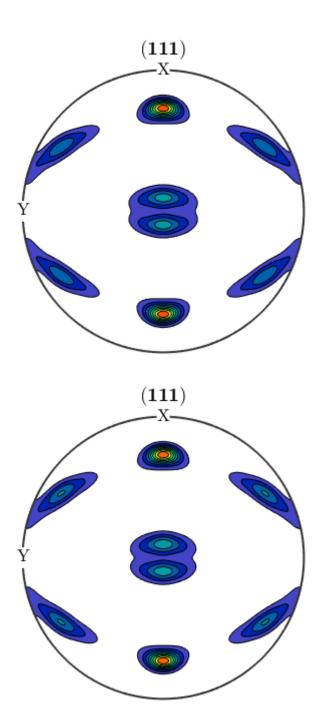


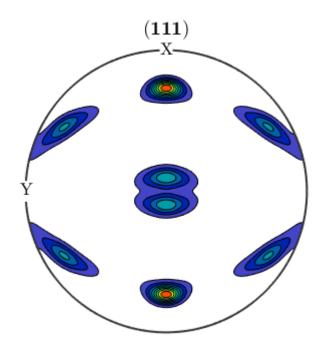












```
progress= 100;%
% plot the resulting pole figures
% figure
% plotPDF(ori,Miller({1,1,1},cs),'contourf','complete')
mtexColorbar
```