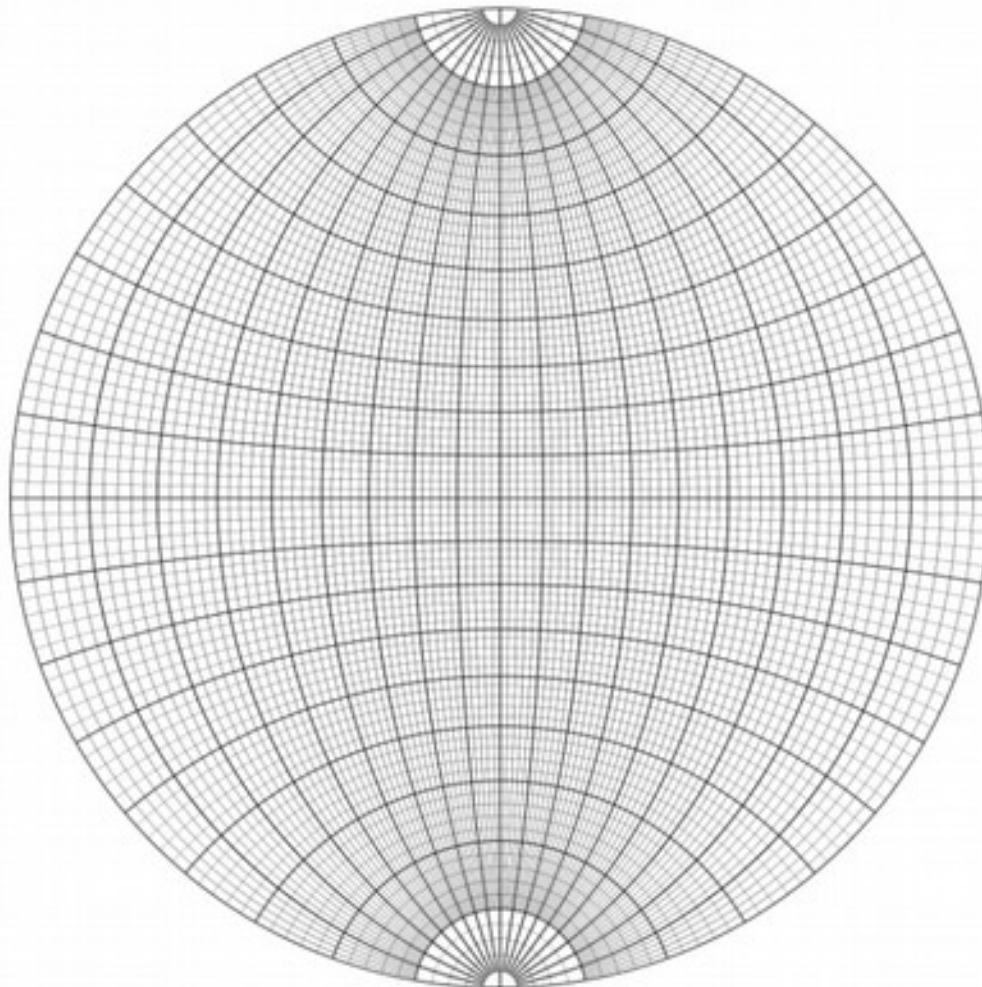


Draw stereographic projections with Stereo-Proj  
January 2015

Save Structures



## Crystal parameters

a 1

b 1

c 1

alpha 90

beta 90

gamma 90

max indices 1

d - 1 +

0

☐ carre/rond

g vector

Tilt

Inclination

**PLOT**☐ uvw☐ Hexa

## Rotation around g vector

- 0 +


Angle

Width

☐ greer ☒ blue ☐ red

Marker size 40

## x y and z rotations

- 10 + 0

- 10 + 0

- 10 + 0

## Add a pole

Add - Symmetry -

dhkl

0.0

Plane - Iso-Schmid -

Sym Planes -

## Euler Angles (phi1, phi, phi2)

0 0 0

**PLOT**

Phi1, Phi, Phi2

b vector n vector

Schmid factor

Tilt, inclination

41.9, 118.1

- Enter crystal parameter and angles alpha, beta and gamma (and the max indices shown).
- Enter a diffraction vector and the tilt angle (along x) et the inclination angle beta :



g vector

Tilt

Inclination

Crystal parameters

a

b

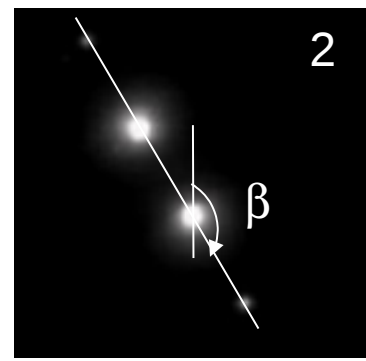
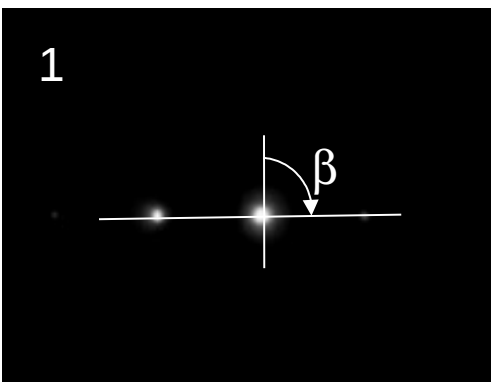
c

alpha

beta

gamma

max indices:



{111} beta=90

{111} beta=147.5

Tilt -22.2

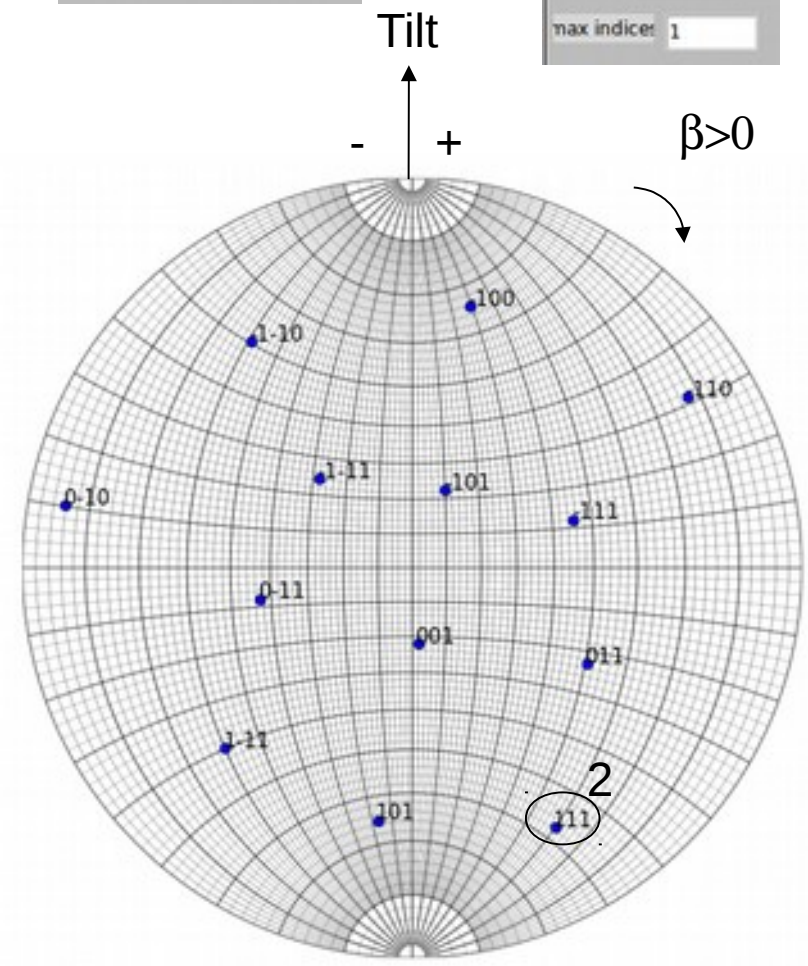
Tilt 30

**Example Al (cubic a=b=c=1 alpha=beta=gamma=90°):**

Here we enter (111) as the diffraction vector, and beta=147.5 et Tx=30:

**PLOT**

We use the positive tilt angle and inclination angle as shown here



To get the correct projection, rotate along the g-vector up to the correct projection here, 47°

Rotation around g vector

-  + 0

Rotation increment

Rotation value

Euler angles are given

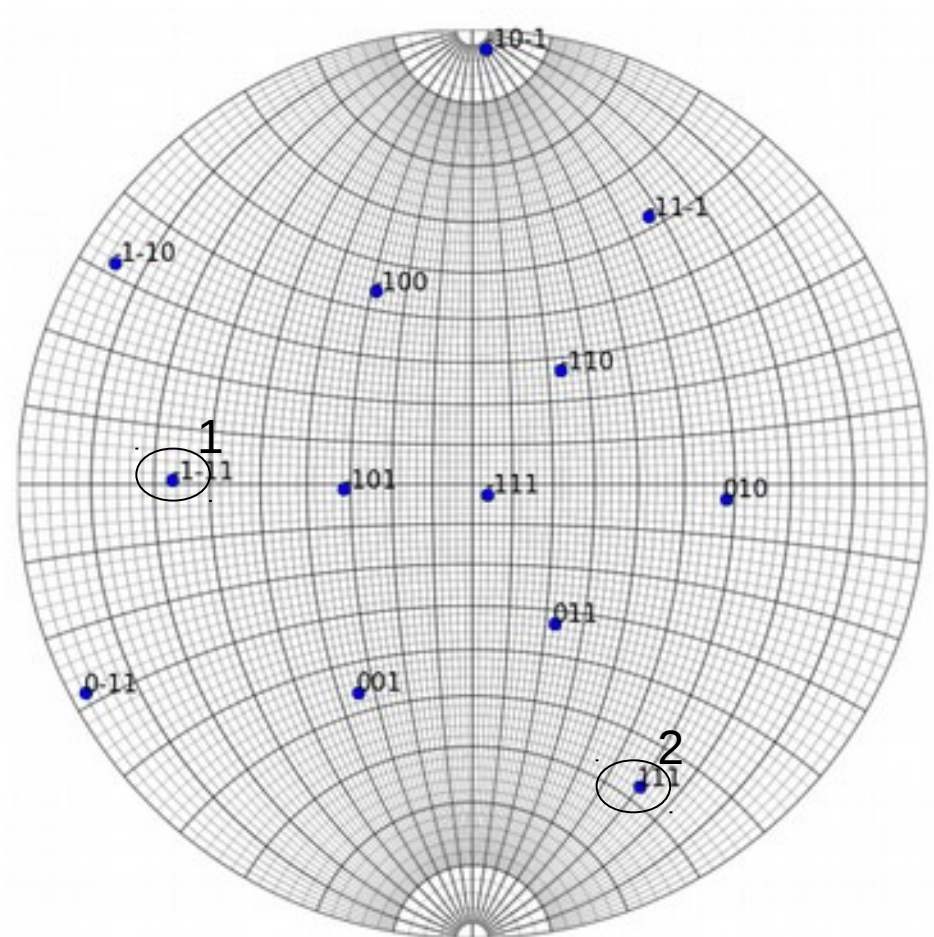
Phi1,Phi,Phi2

-28.7,55.1,-50.3

Running the mouse over the projection you get the inclination and tilt angles

Tilt, inclination

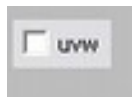
-18.5,114.1



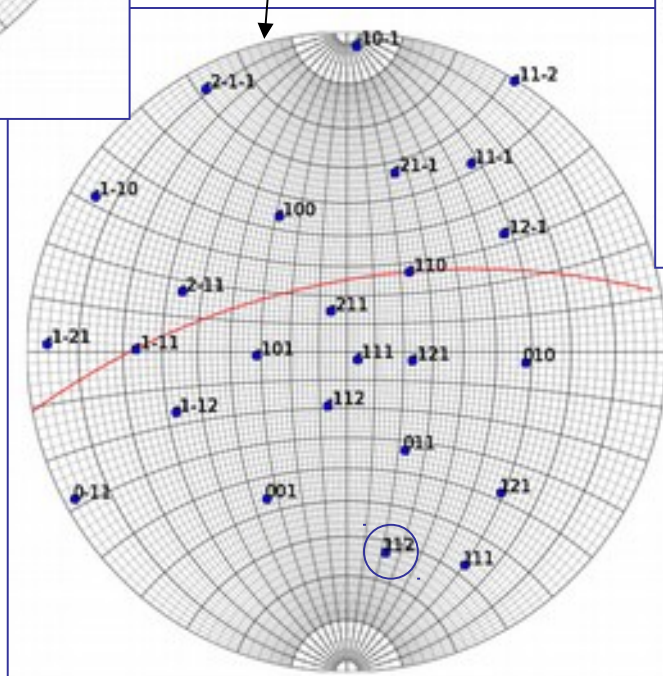
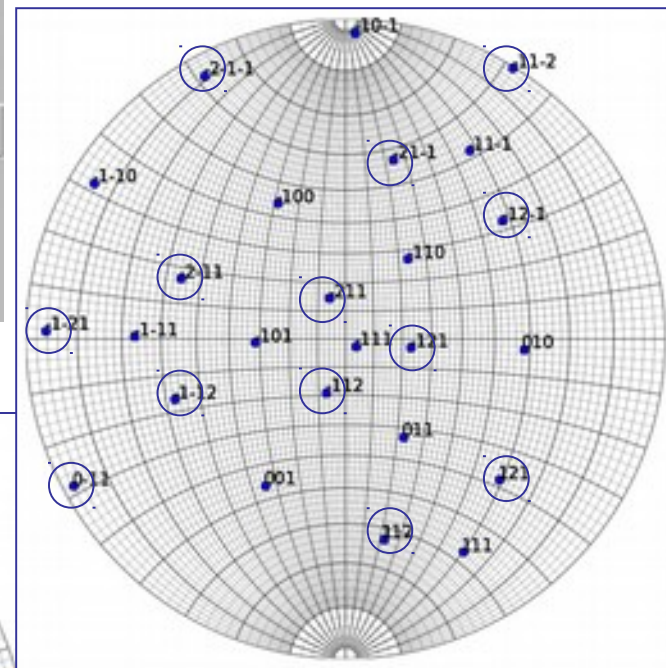
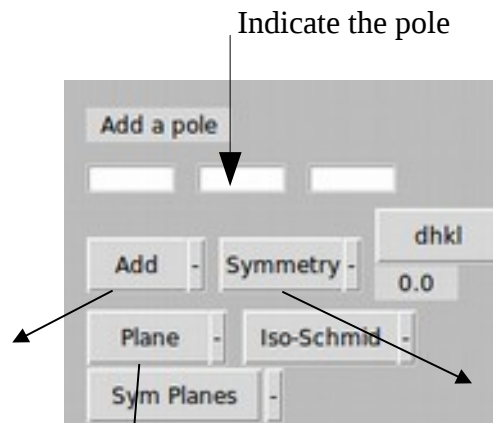
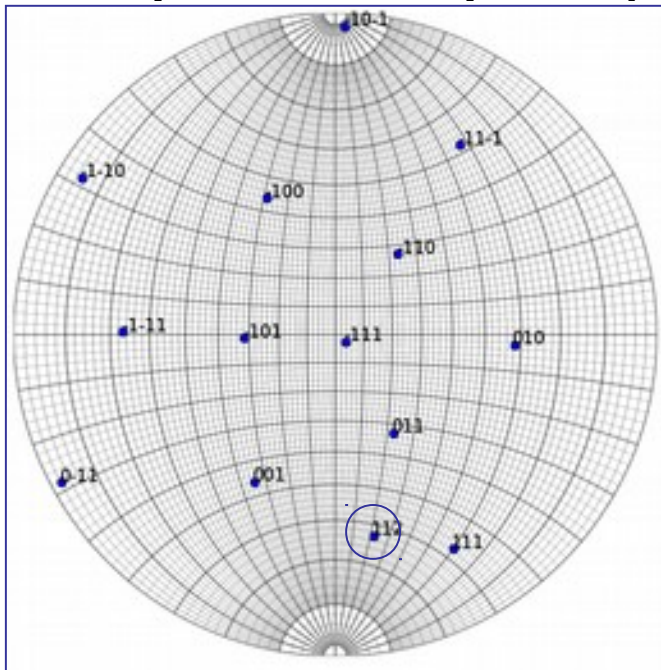


Other features

- Draw the uvw direction by ticking:

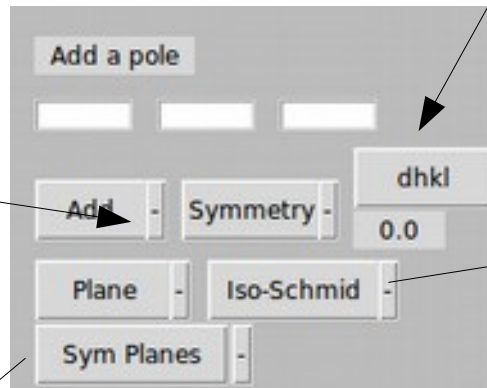


- Add a pole/direction, draw the plane, and equivalent plane/pole :

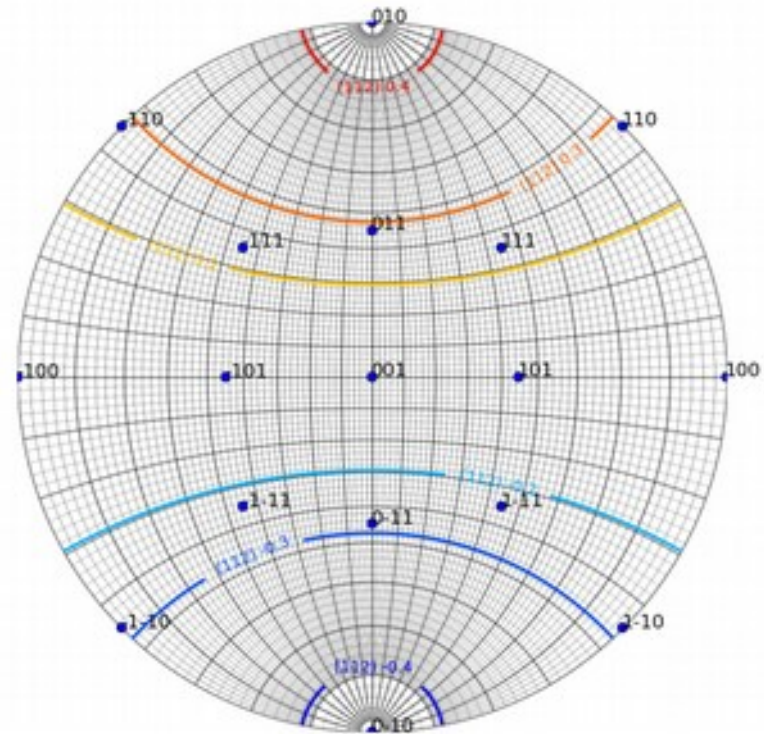
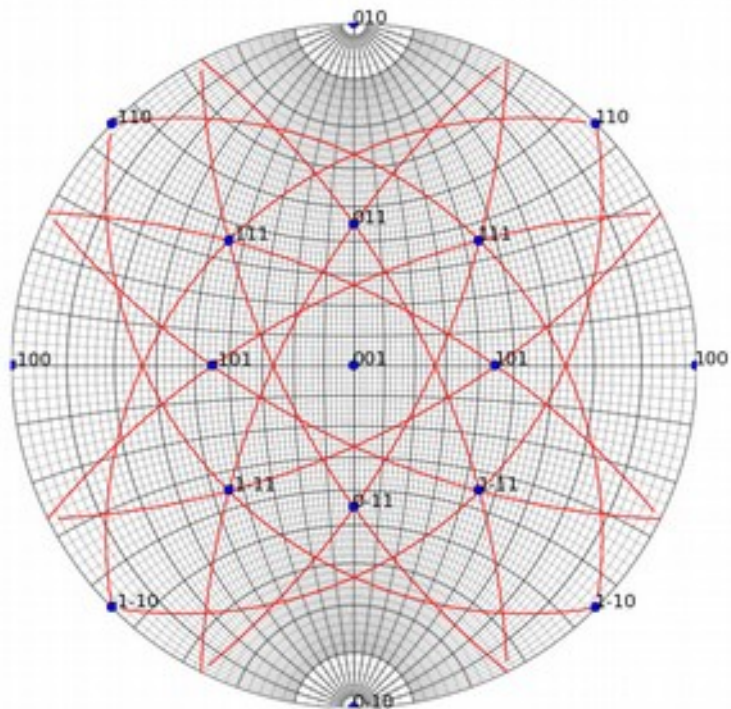


Interplanar spacing

Minus button  
erase  
pole/plane  
indicated

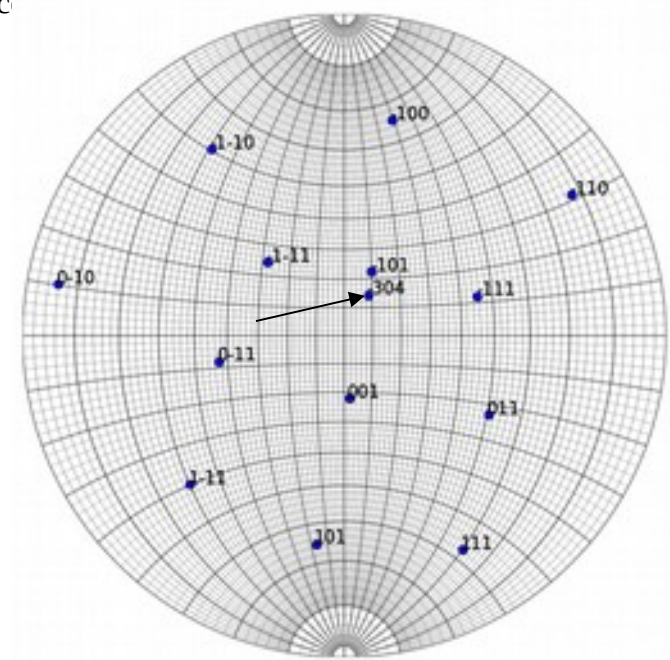


Draw equivalent planes

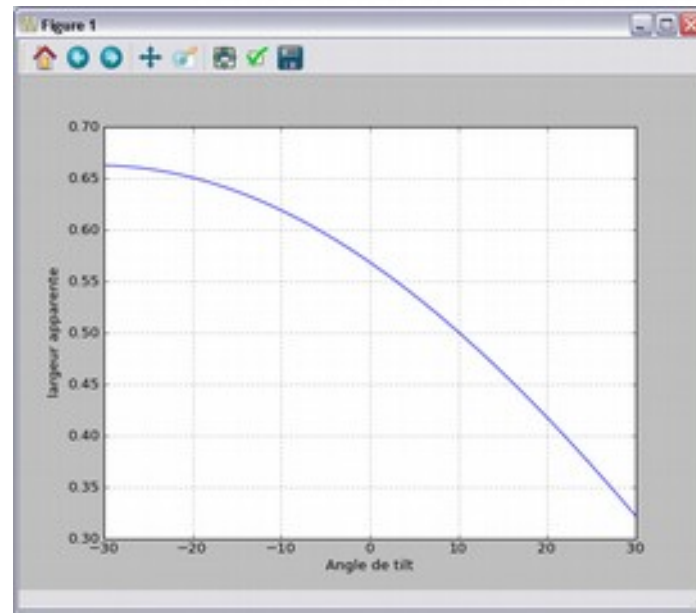


Draw iso-contours of the Schmid factor for a given plane

- d - 1  
0



- Width



- Compute the angle between two pole

1	1
1	0
2	1

Angle

30.0

- Compute the Schmid factor (with the strain axis along y)
- Make rotation along x,y,z (default step 10°)

x y and z rotations

-	10	+	0
-	10	+	0
-	10	+	0

b vector	n vector

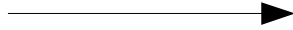
Schmid factor

- Save the projection (jpeg default)

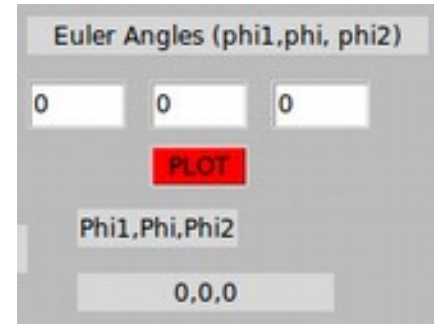
Save Structures



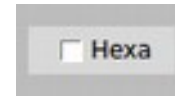
- Draw directly with the Euler angle



- Euler angles indications

A software interface for inputting Euler angles. It features a title bar 'Euler Angles (phi1,phi, phi2)', three input fields each containing '0', a red 'PLOT' button, a label 'Phi1,Phi,Phi2', and a display field showing '0,0,0'.

- For hexagonal system tick for 4 indices notation

A checkbox control with the label 'Hexa' next to it.