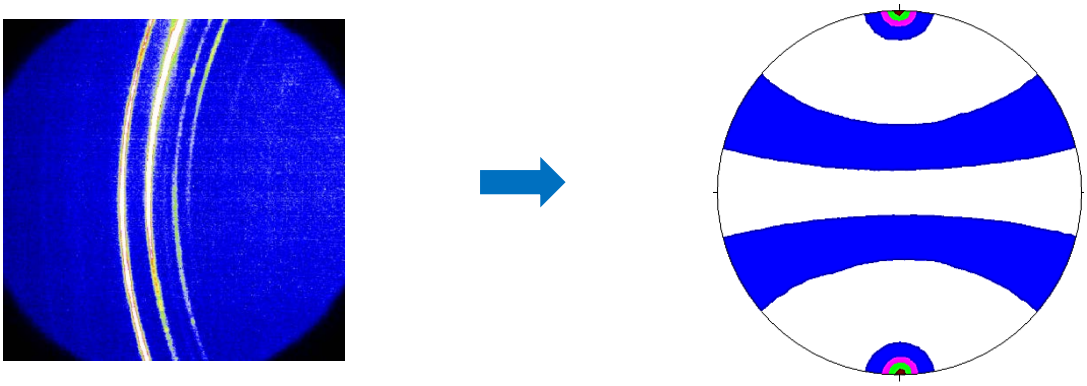
Program of the TEXMAT-CZM Texture School

September 29th 2015

From Area Detector pictures to pole figures



09:00: 09.10	**Welcome address**
09:10 – 09:45	**Lecture:** Introduction in crystallographic textures
09:45 – 10:15	**Lecture:** X-ray Pole figure measurements
10:15– 10:45	**Lecture:** Neutrons Pole figure measurements
10:45 - 11:00	**Coffee break**
11:00 – 11:30	**Lecture:** Synchrotron Pole figure measurements
11:30– 12:00	**Lecture:** EBSD measurements
12:00– 12:30	**Lecture:** Principle ways of data treatment (individual peak, Rietveld refinement)
12:30 - 14:00	**Lunch break**
14:00 – 15:30	**Practical:** Sabo → Pole figure → ODF-TUC → ODF MTEX
15:30 - 15:45	**Coffee break**
15:45 – 17:30	**Practical:** Sabo → Pole figure → ODF-TUC → ODF MTEX

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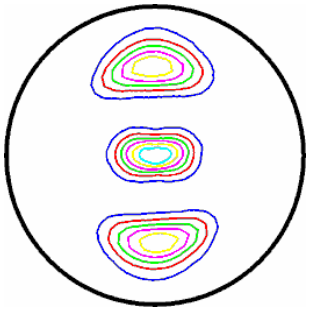
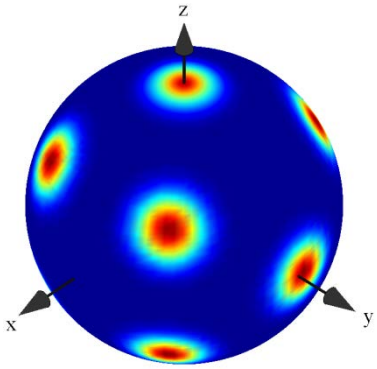
September 30th 2015

Interpretation of pole figures





09:00 – 09:45	**Lecture:** Definition of the pole figure (type of projection, pole figure window, pole figure statistics, number of pole figures, normalisation, RP-values ...)
09:45 – 10:00	**Lecture:** Introduction in pole figure extraction by STECA - Software
10:00- 10:15	**Coffee break**
10:15 – 12:00	**Practical:** STECA→ Pole figure → ODF-TUC → ODF MTEX
12:00 -13:30	**Lunch break**
13:30 – 14:00	**Lecture:** Basic information of pole figure
14:00 -14:30	**Practical:** Interpretation of pole figure symmetry and its meaning
14:30 -15:00	**Practical:** Ideal components (hkl)<uvw> and ideal fiber textures in cubic and hexagonal materials
15:00-15:15	**Coffee break**
15:15 – 17:30	**Practical:** Crystallographic relation between pole figures (cubic, hexagonal)

19:30 -	**Social evening**

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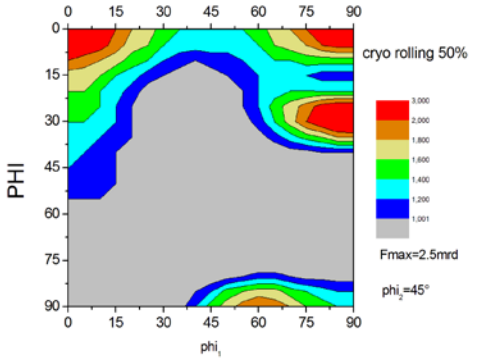
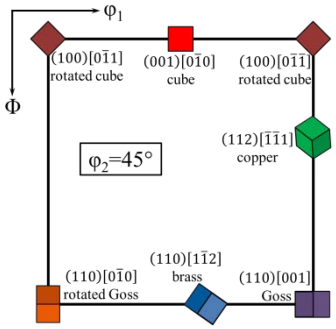
October 1st 2015

Interpretation of the orientation distribution function





09:00 – 09:45	**Lecture:** Introduction in the orientation distribution function (ODF)
09:45 – 10:15	**Lecture:** Basic information's on how to calculate the ODFs
10:15 -10:45	**Practical:** Interpretation of ODFs (ideal components, orientation bands 'fiber components')
10:15 - 11:00	**Coffee break**
11:00 – 11:30	**Practical:** MTEX for ODF calculation
11:30 -12:00	**Practical:** Anisotropic properties after ODF calculation
12:00 - 13:30	**Lunch break**
13:30 – 15:00	**Lecture Practical:** Extraction of pole figure data using MAUD
15:00-15:15	**Coffee break**
15:15 – 16:30	**Lecture Practical:** Extraction of pole figure data using MAUD