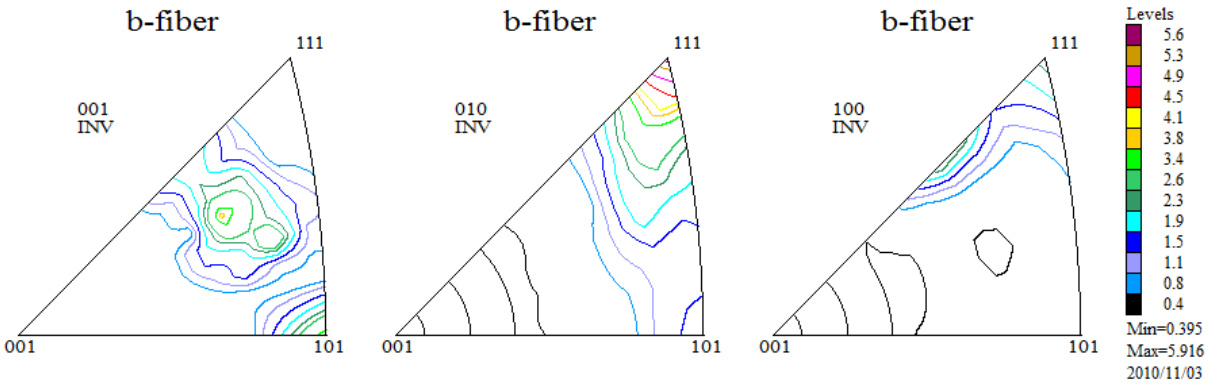
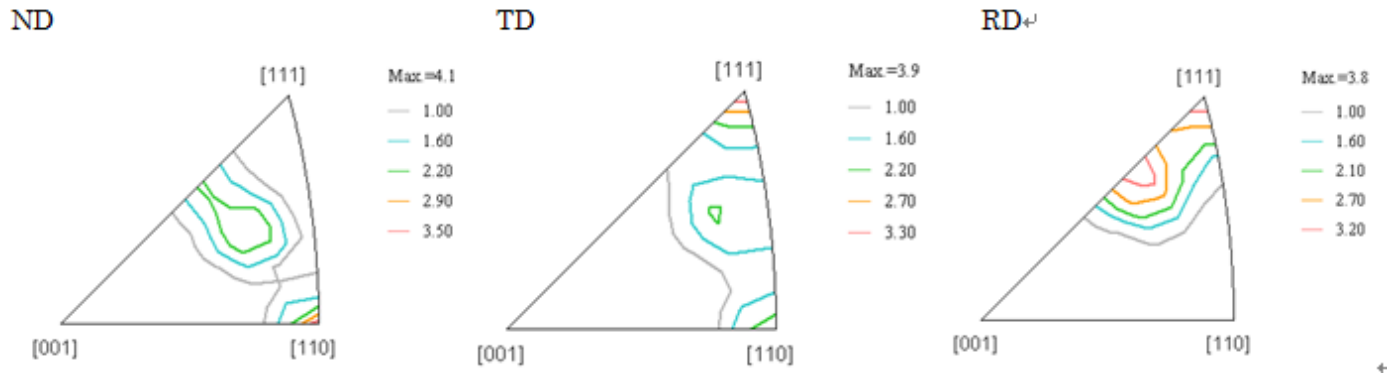
ＡｌのβＦｉｂｅｒを解析すると各種ＯＤＦの逆極点に違いが出る事がある。
そこで、ＬａｂｏＴｅｘでβＦｉｂｅｒをシュミレーションし比較した。

ＬａｂｏＴｅｘでβ―Ｆｉｂｅｒを作成し逆極点比較

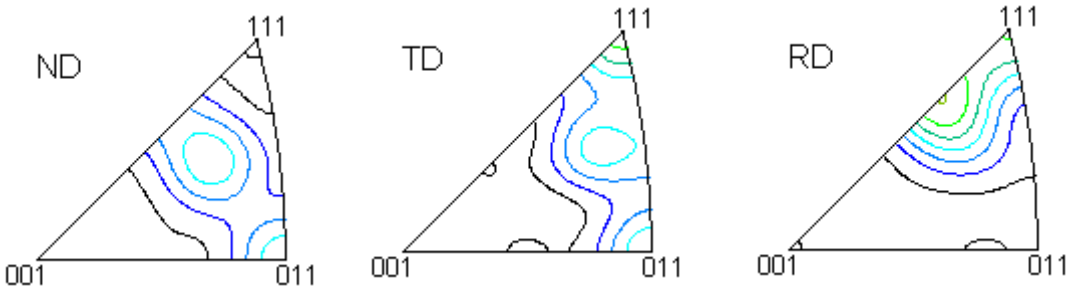
ＬａｂｏＴｅｘ



ＴｅｘＴｏｏｌｓ



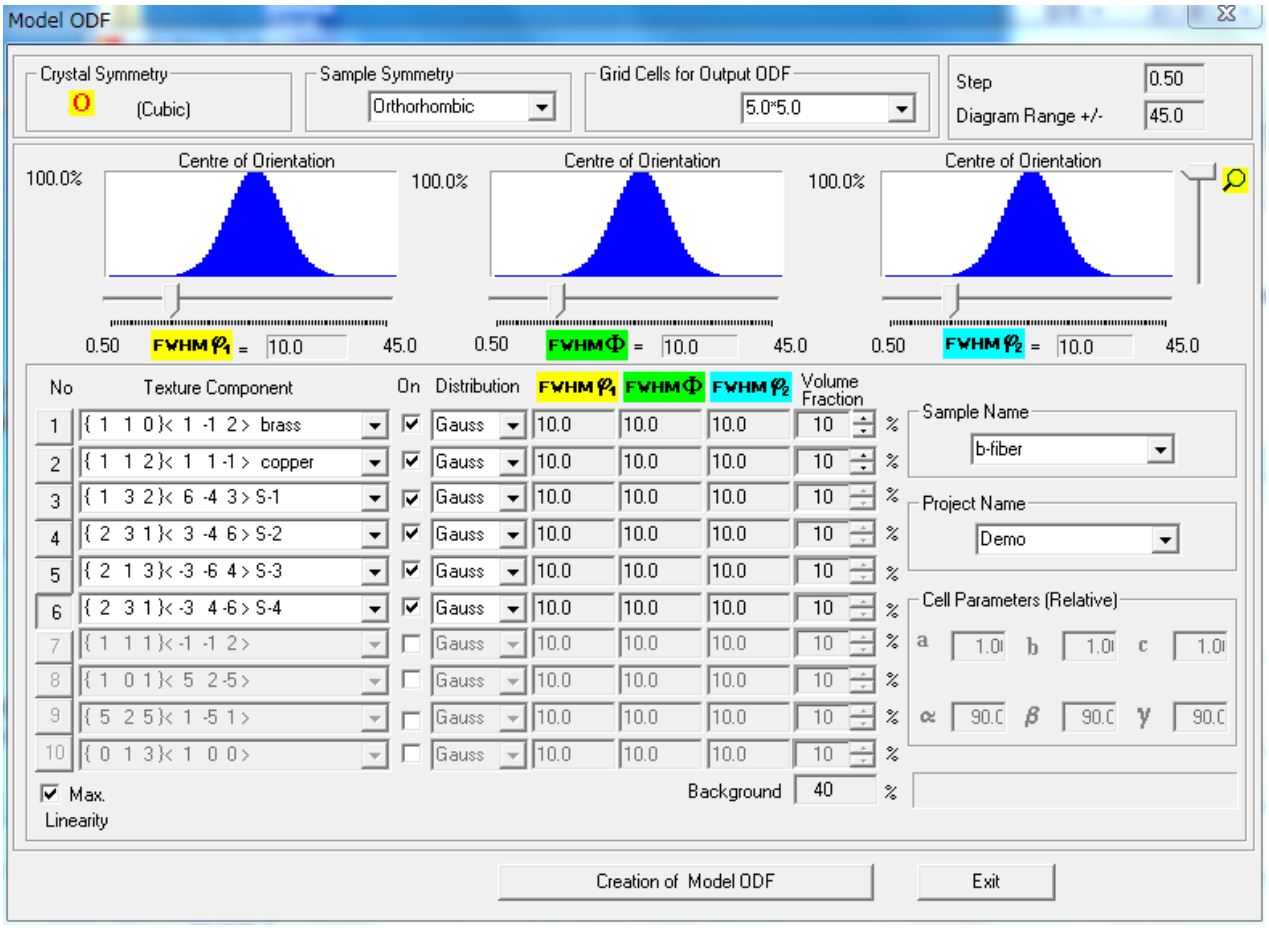
ＳｔａｎｄａｒｄＯＤＦ（Ｍａｘ６．５９）

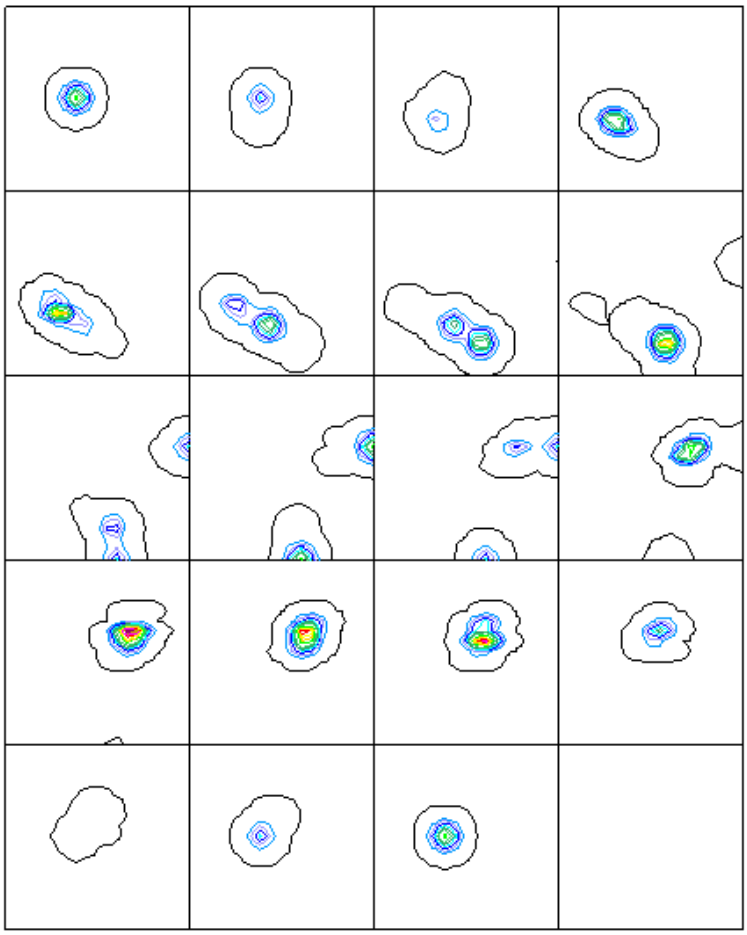


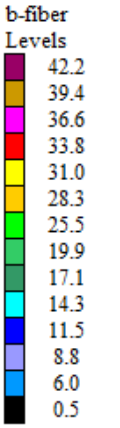
等高線作成時のスムージング処理で異なった結果にも見えるが、ほぼ同一になる。

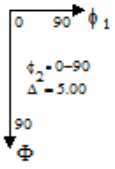
２０１０年１１月０４日
ＨｅｌｐｅｒＴｅｘ

ModelODF

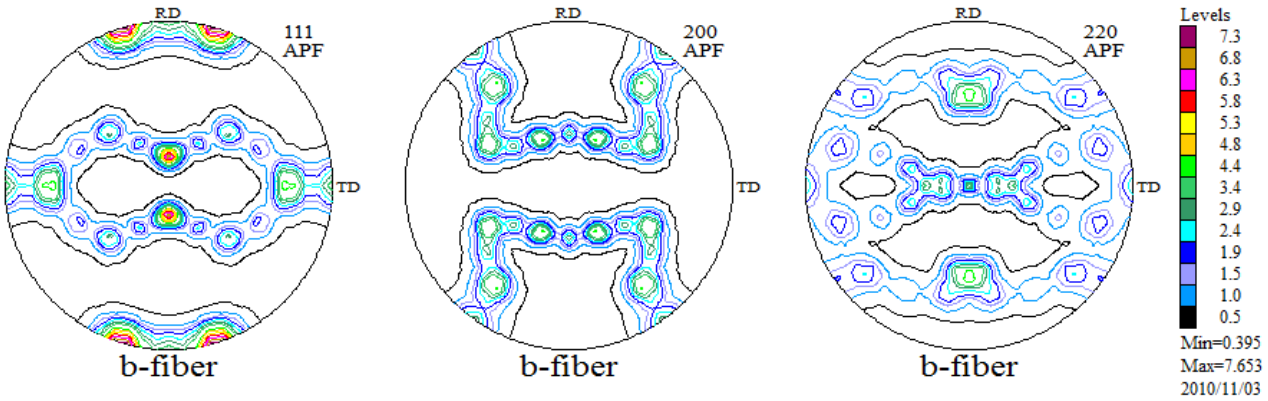

Model ODF
Crystal Symmetry
O
(Cubic)
Sample Symmetry
Orthorhombic
Grid Cells for Output ODF
5.0*5.0
Step
0.50
Diagram Range +/-
45.0
Centre of Orientation
100.0%
0.50
FWHM φ1 =
10.0
45.0
FWHM Φ =
FWHM φ2 =
No
Texture Component
On
Distribution
Volume Fraction
1 { 1 1 0}< 1 -1 2> brass
2 { 1 1 2}< 1 1 -1> copper
3 { 1 3 2}< 6 -4 3> S-1
4 { 2 3 1}< 3 -4 6> S-2
5 { 2 1 3}< -3 -6 4> S-3
6 { 2 3 1}< -3 4 -6> S-4
7 { 1 1 1}< -1 -1 2>
8 { 1 0 1}< 5 2 -5>
9 { 5 2 5}< 1 -5 1>
10 { 0 1 3}< 1 0 0>
Gauss
Max. Linearity
Background
40
Sample Name
b-fiber
Project Name
Demo
Cell Parameters (Relative)
a
b
c
α
β
γ
Creation of Model ODF
Exit



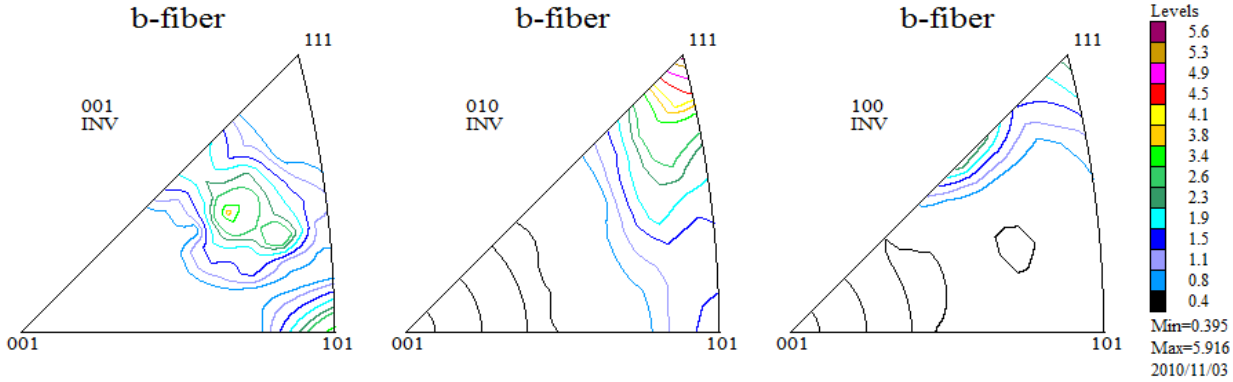

b-fiber
Levels
42.2
39.4
36.6
33.8
31.0
28.3
25.5
19.9
17.1
14.3
11.5
8.8
6.0
0.5
Max=44.973
Min=0.400
2010/11/03


0
90
φ1
φ2 = 0-90
Δ = 5.00
90
Φ

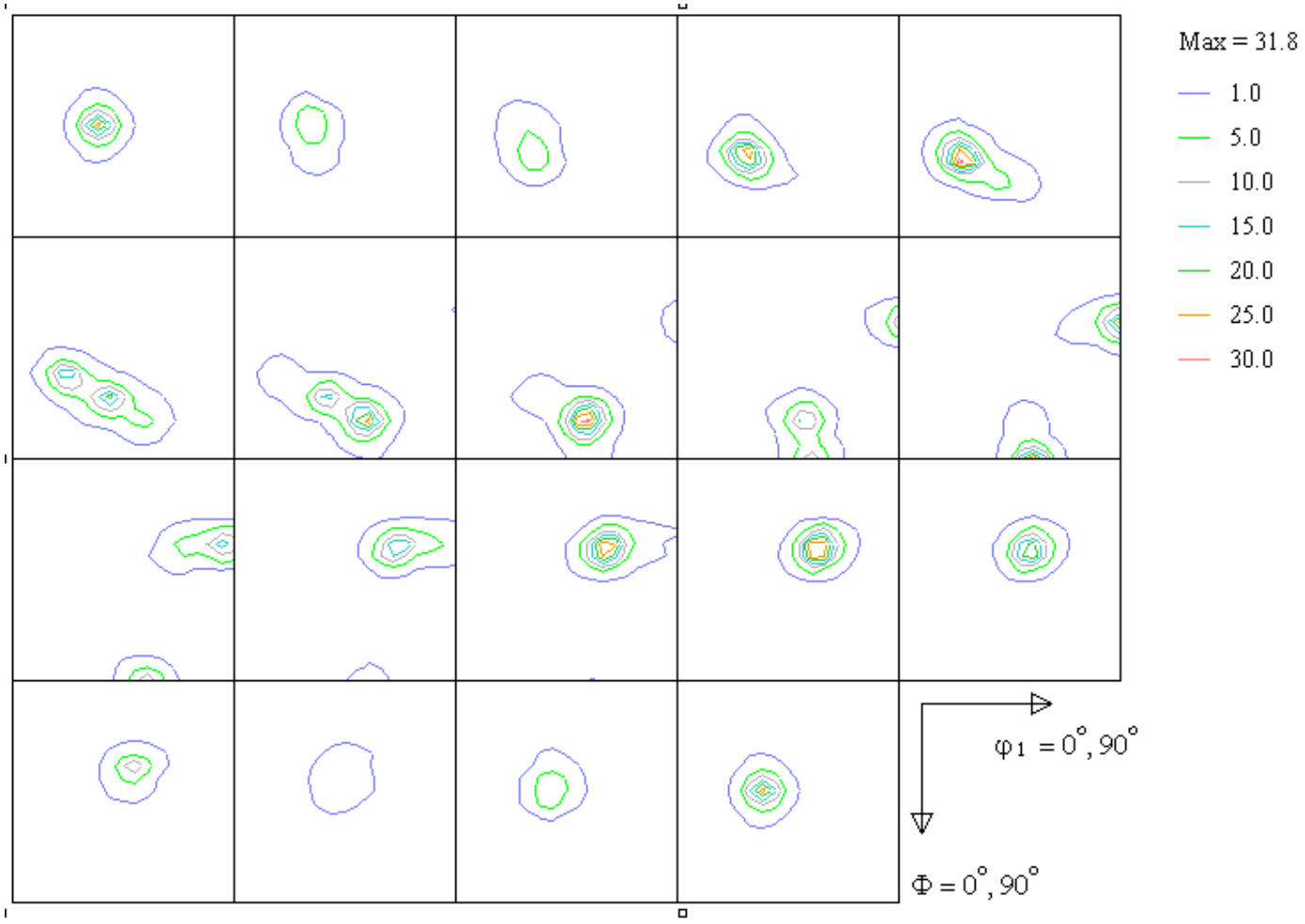
Create Pole Figure

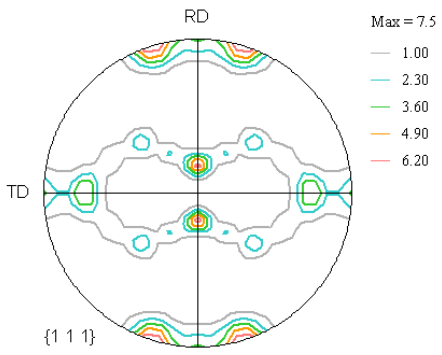


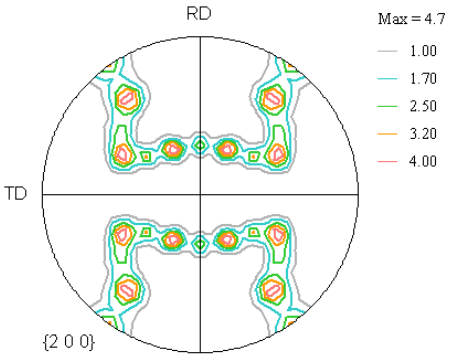
CreateInversePolefigure

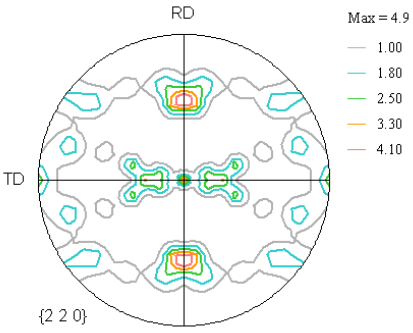


LaboTexPF-Export－＞TexTools

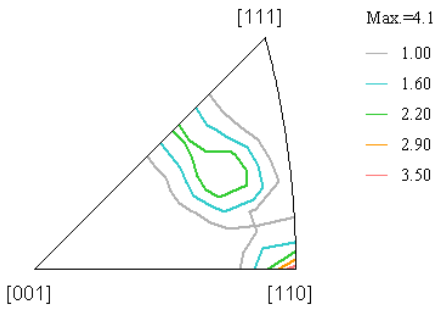




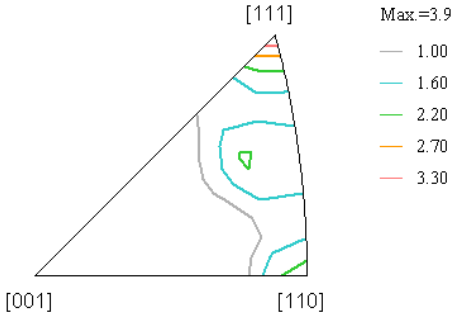




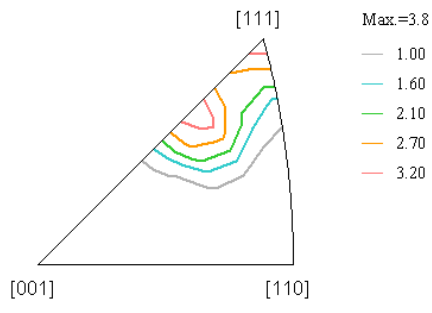
ND



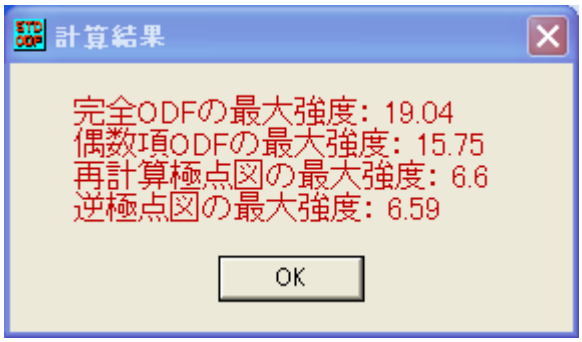
TD

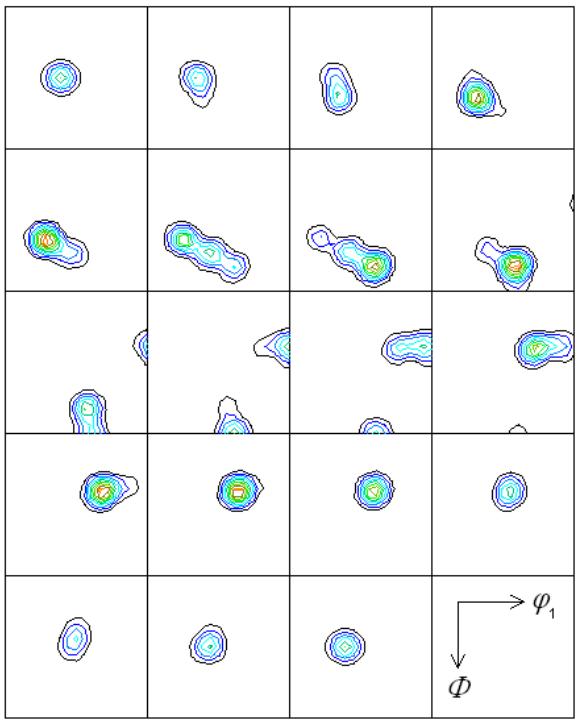


RD

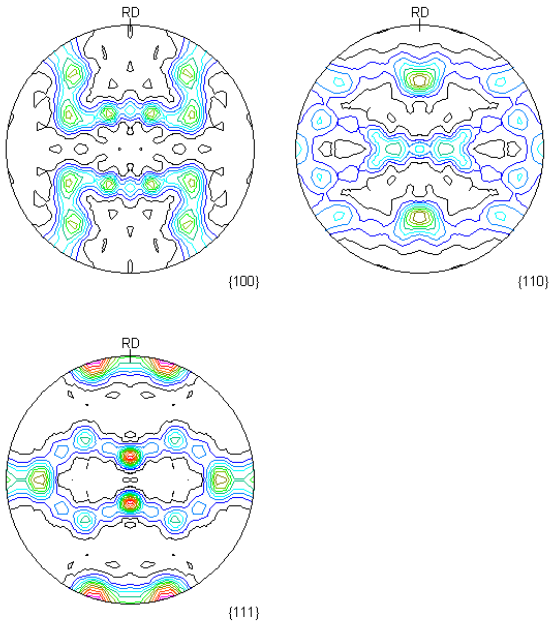


LaboTexPF-Export->StandardODF

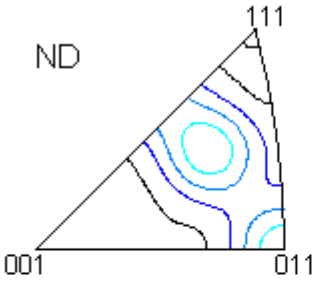


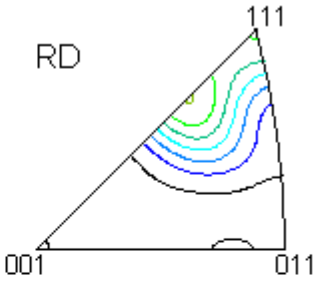


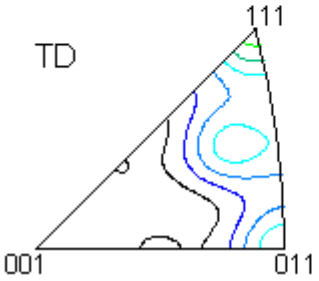
Contour Levels: 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0

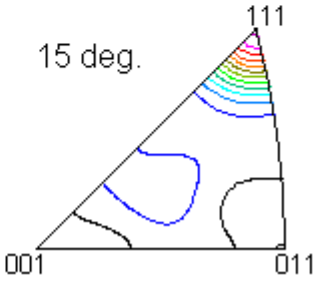


Contour Levels: 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5

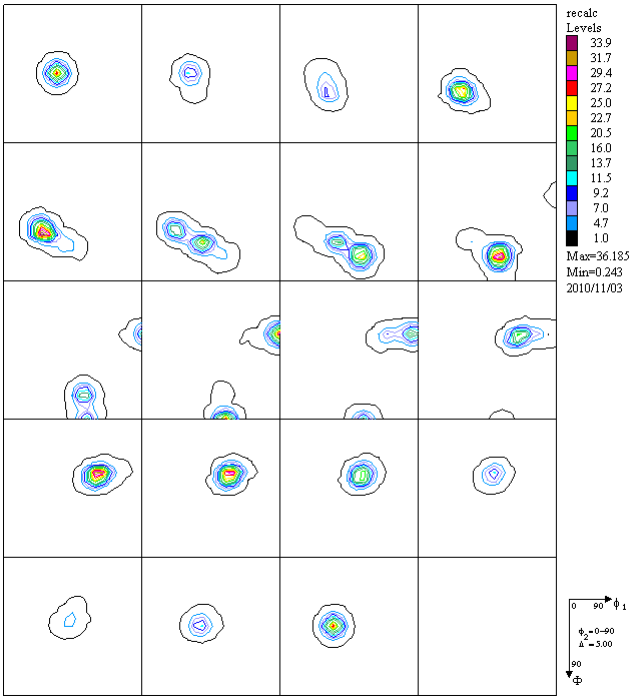


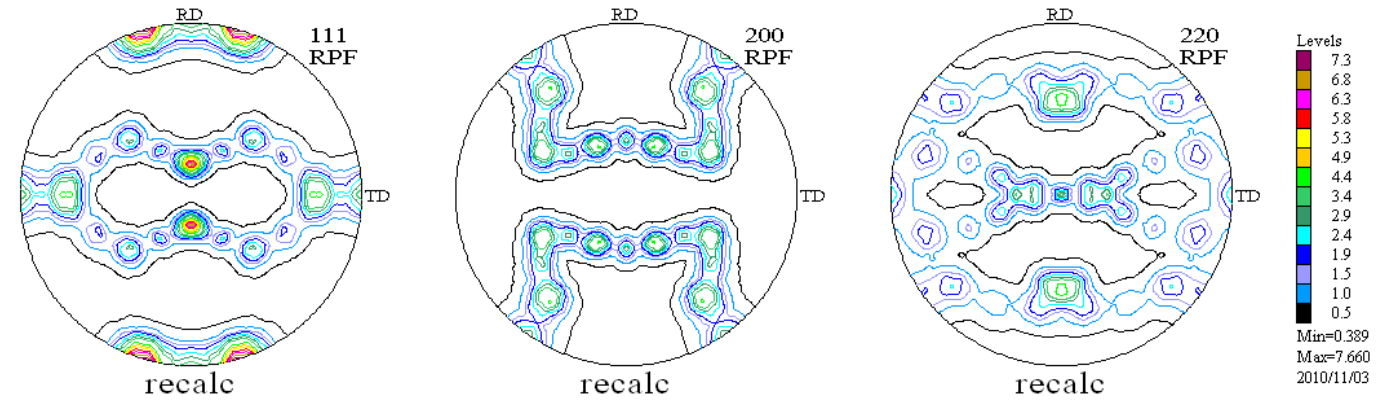


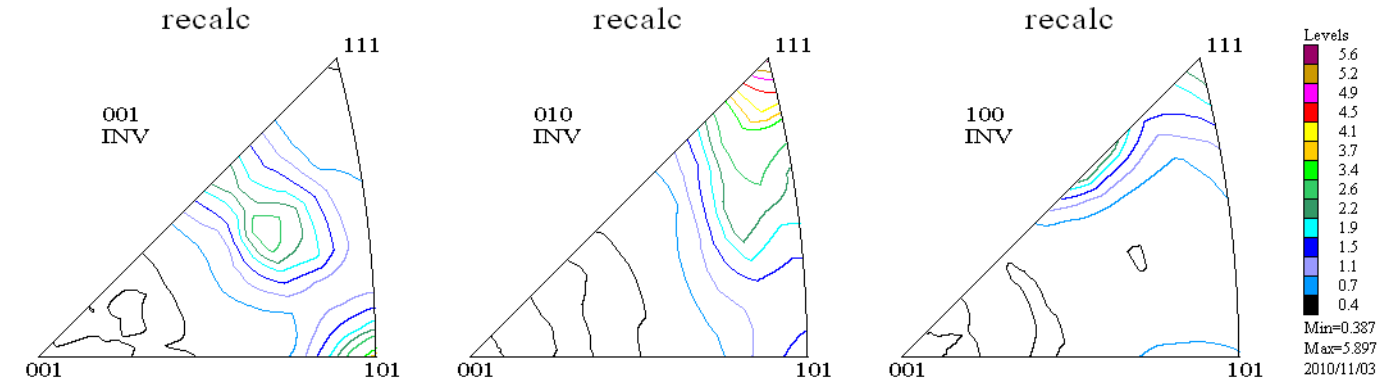




LaboTexPF-Export->LaboTex



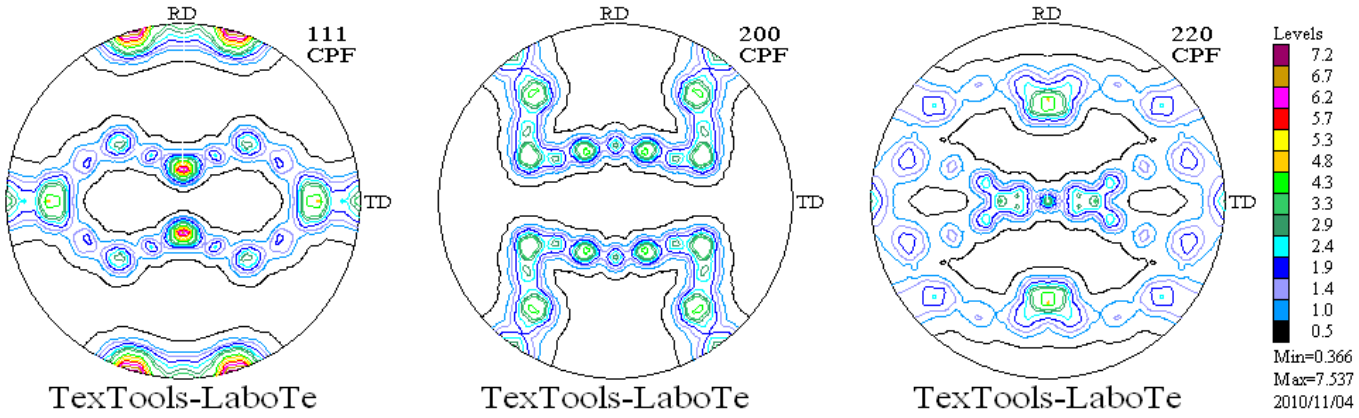




ＬａｂｏＴｅｘ－＞Ｅｘｐｏｒｔ－＞ＴｅｘＴｏｏｌｓ－＞ＥｘＰｏｒｔ－＞ＬａｂｏＴｅｘ

Max 7.6　　7.5　　7.5

の入力極点図



ＬａｂｏＴｅｘで極点図の最大強度７．６を

ＴｅｘＴｏｏｌｓでＯＤＦ解析後の再計算極点図が７．５になる。

（ＳｔａｎｄａｒｄＯＤＦでは６．６）