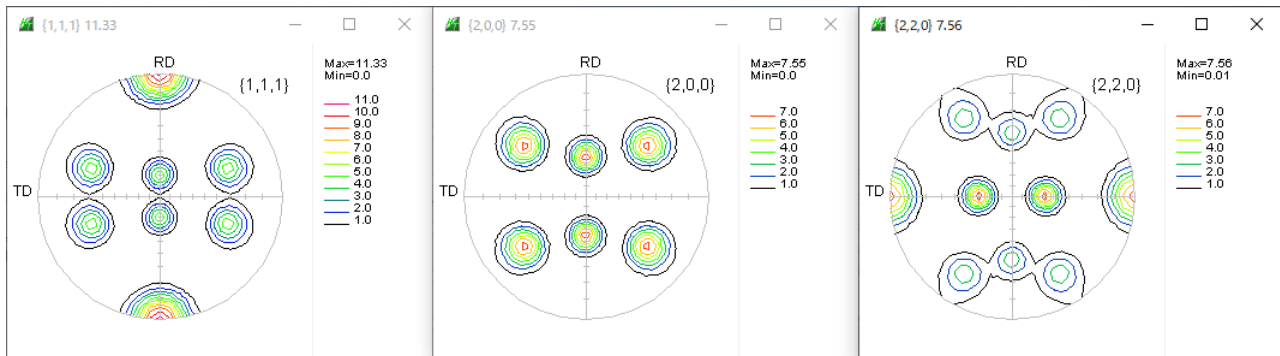
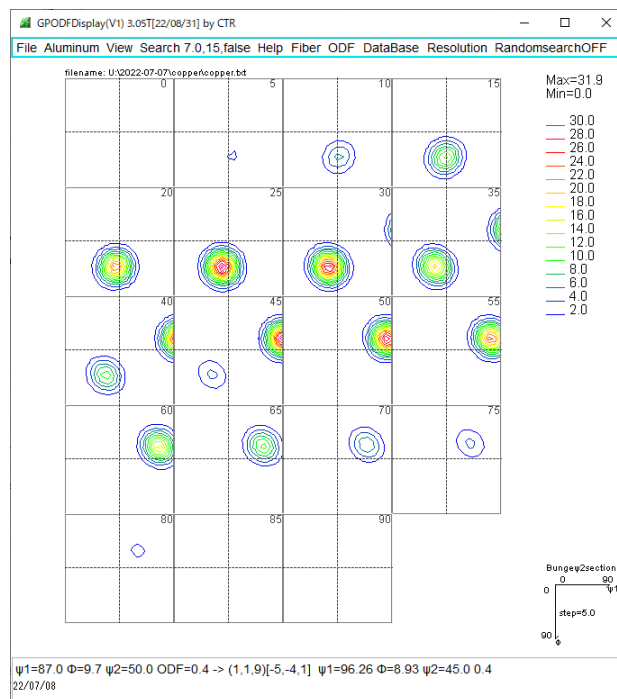


Copper方位の特徴

Copperの極点図



ODF解析結果



2022年07月08日

HelperTex Office

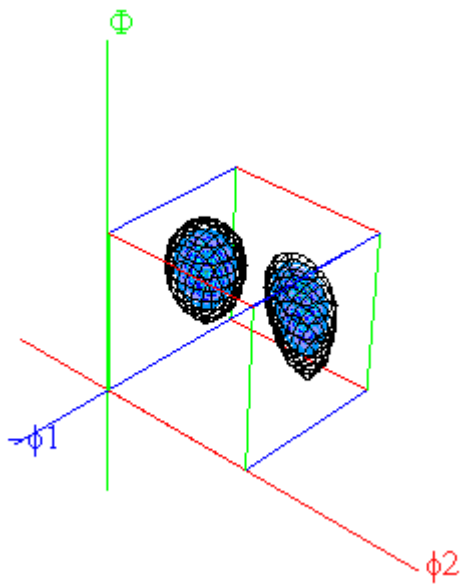
概要

ODF解析結果の ϕ_2 断面を見ても、全体は判断し難い。

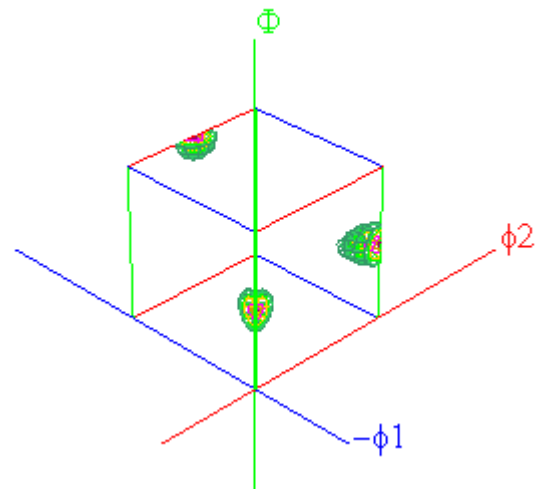
ODFの ϕ_2 断面を重ねると以下の3Dが得られる。

CopperはGossに似ています。

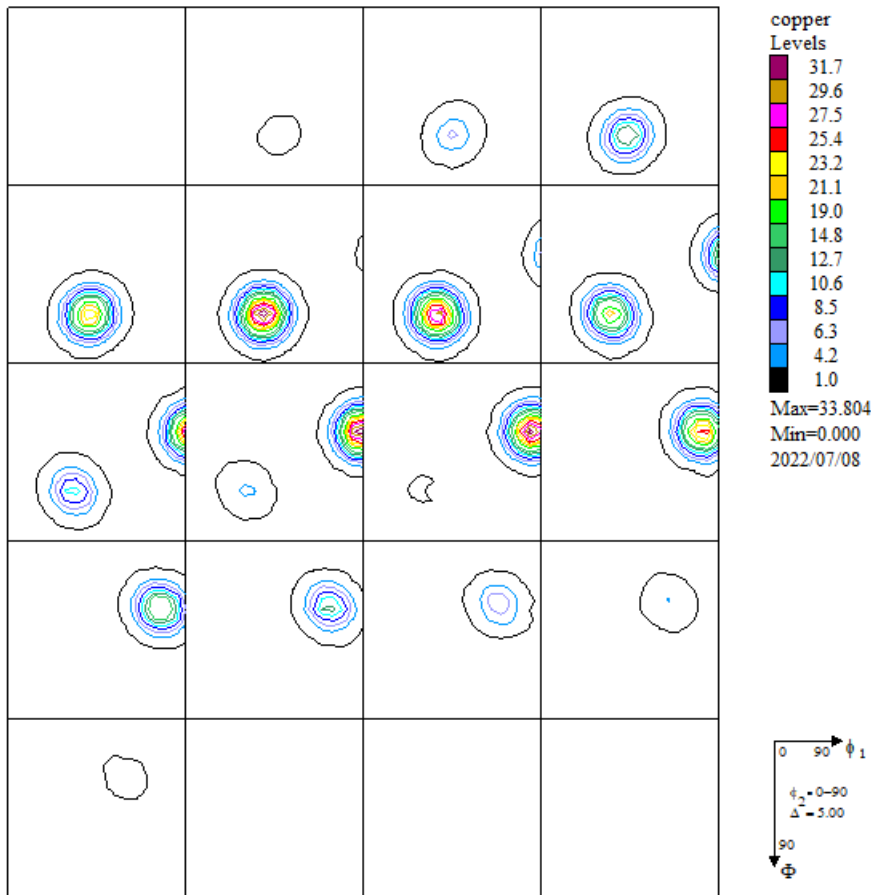
Copper



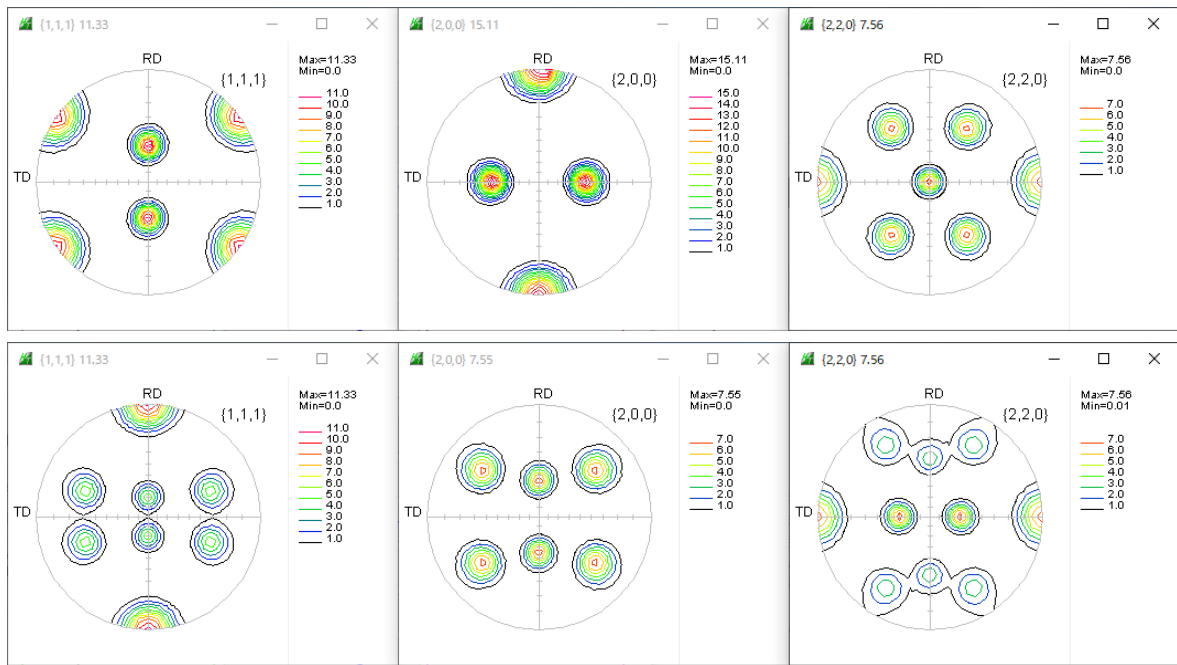
Goss



Copper ODF



極点図をGossと比較



Goss 方位からTD軸 (Y) を55度回転で得られます。(Orthorhombic)

PFRotation 1.18[22/08/31] by CTR
 File Help Polefigure(3D)
 TXT2 files select
 Path: U:\2022-07-07\goss
 File: 111_bt-rp_2.TXT 200_bt-rp_2.TXT 220_bt-rp_2.TXT
 Rotation(-360 <= degree <= 360) of vector machine axis
 AlongND(X) [1] 0 AlongTD(Y) [2] 55 AlongND(Z) [3] 0 [4] 0
 toOrthorhombic Rotate PoleFigure
 Check
 Previous Next 111_bt-rpR0T55N0.TXT Alfa angle check
 Save
 Normalization TXT(Pole) ASC(Pole) Ras(Pole) TXT2(Pole) Save
 StepChenger
 3) function files folder(Calc
 2) function files folder(Calc
 Weight 10

あるいは vector[0-10]を 5 5 度回転

CrystalRotation 1.04T[22/08/31] by CTR

File Help

Material

Material Cubic Aluminum

1.0 1.0 1.0 90.0 90.0 90.0

$\{hkl\}Kuvw>$

1 1 0 0 0 1 Disp

Rotation vector of crystal axis

1 -1 0 SET CTD

Rotation vector of machine axis(LaboTex,MTEX)

0 -1 0 SET

Rotation angle

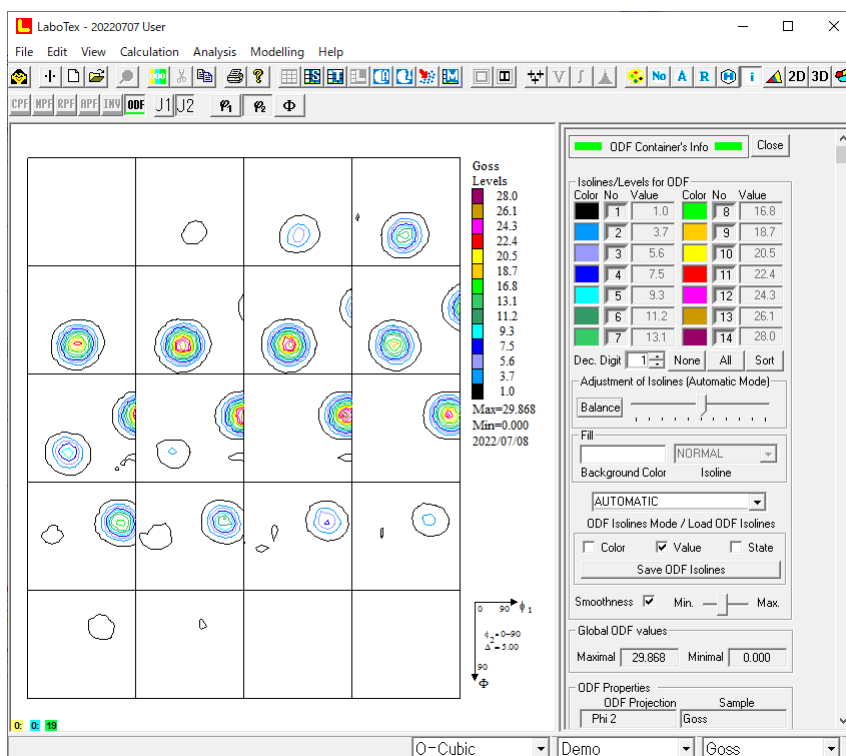
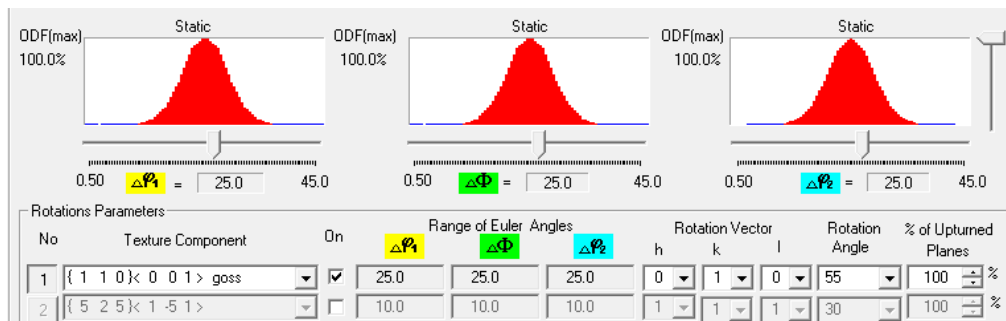
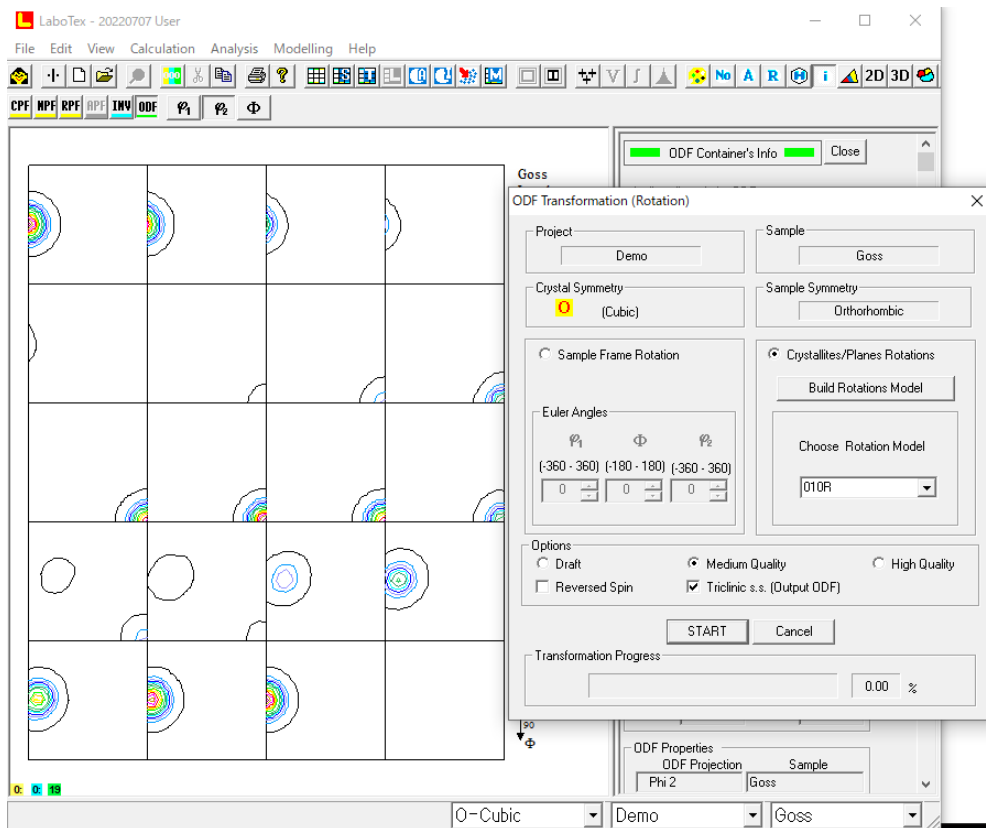
55 Calc Disp

Result

```
{110}<001> eulerangle:(90.0,90.0,45.0)
g( $\psi_1 \Phi \psi_2$ )=
  0.0 0.7071 0.7071
  0.0 0.0 0.7071
  1.0 0.0 0.0
Rotation [1-10] angle:55.0
Calc-d=(0.7071,-0.7071,0.0)
a(1-10),55.0=
  0.7868 -0.2132 0.5792
 -0.2132 0.7868 0.5792
 -0.5792 -0.5792 0.5736
ag=
  0.5792 0.5563 0.4056
  0.5792 -0.1508 0.4056
  0.5736 -0.4096 -0.8192
Calc Miller indices
{1 1 -2}<1 1 1>
```

{1 1 -2}<1 1 1> set{hkl}Kuvw>

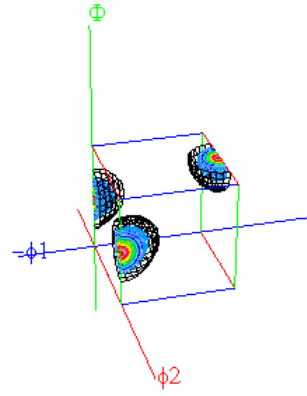
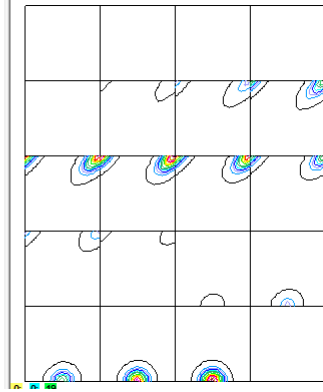
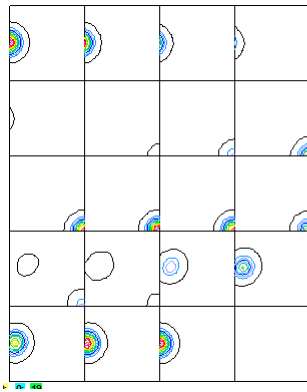
Goss ODFを[010]軸に55度回転でCopper方位が得られます。



G o s s

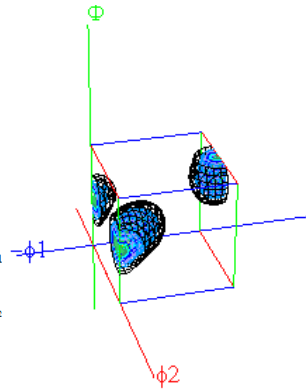
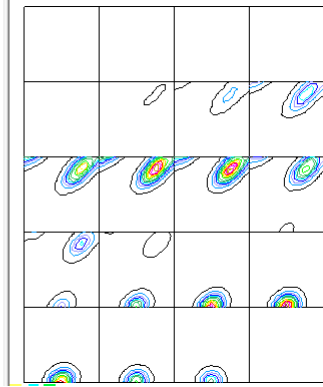
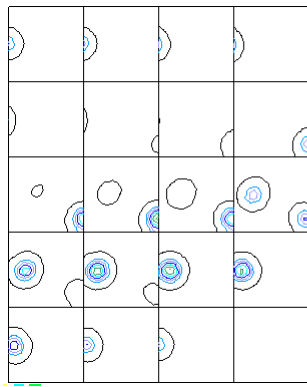
ϕ 2 断面

Φ 断面



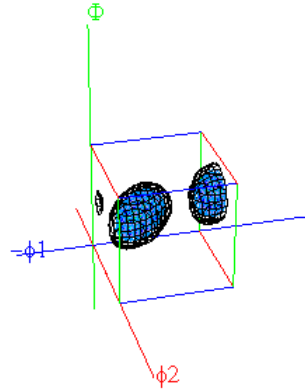
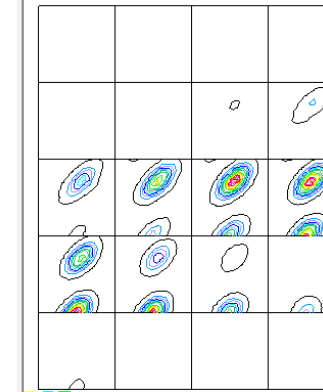
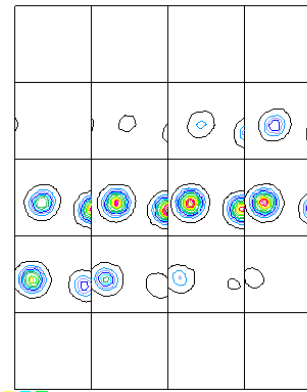
Rotation Vector			Rotation	% of Uptuned
h	k	l	Angle	Planes
0	1	0	15	100

G o s s



Rotation Vector			Rotation	% of Uptuned
h	k	l	Angle	Planes
0	1	0	30	100

G o s s



Rotation Vector			Rotation	% of Uptuned
h	k	l	Angle	Planes
0	1	0	65	100

G o s s

C o p p e r

