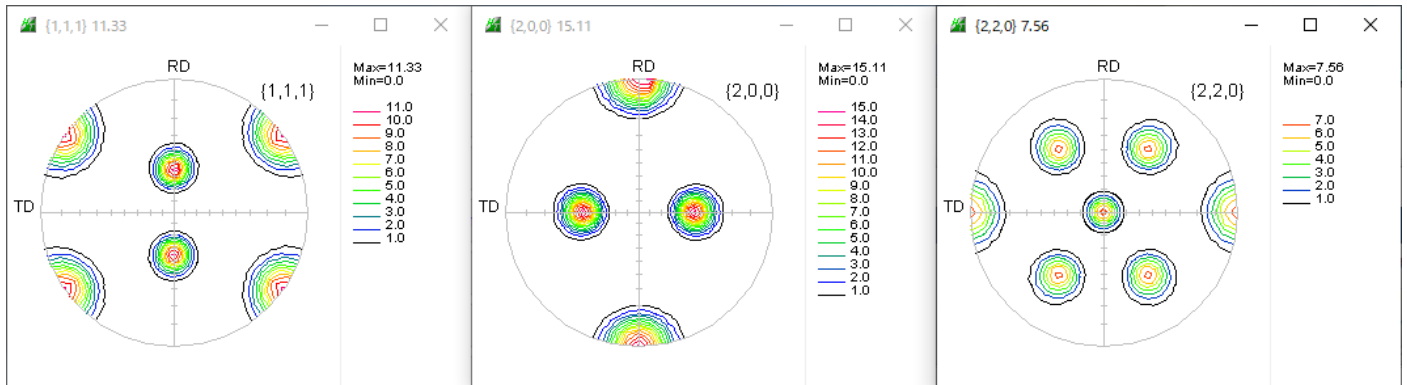
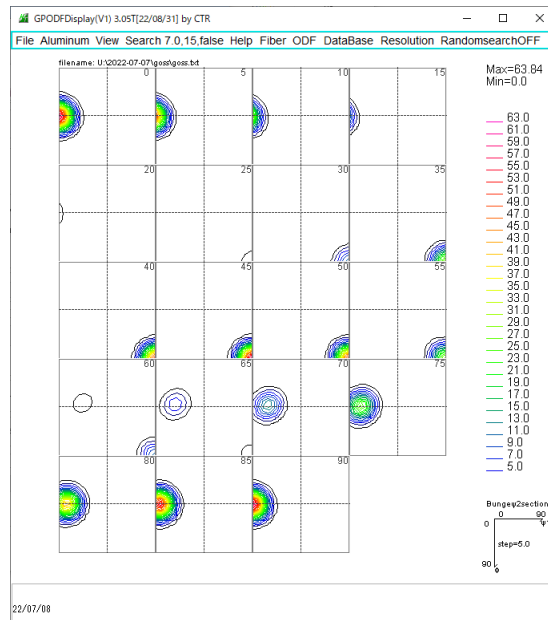


G o s s 方位の特徴

G o s s の極点図



ODF 解析結果



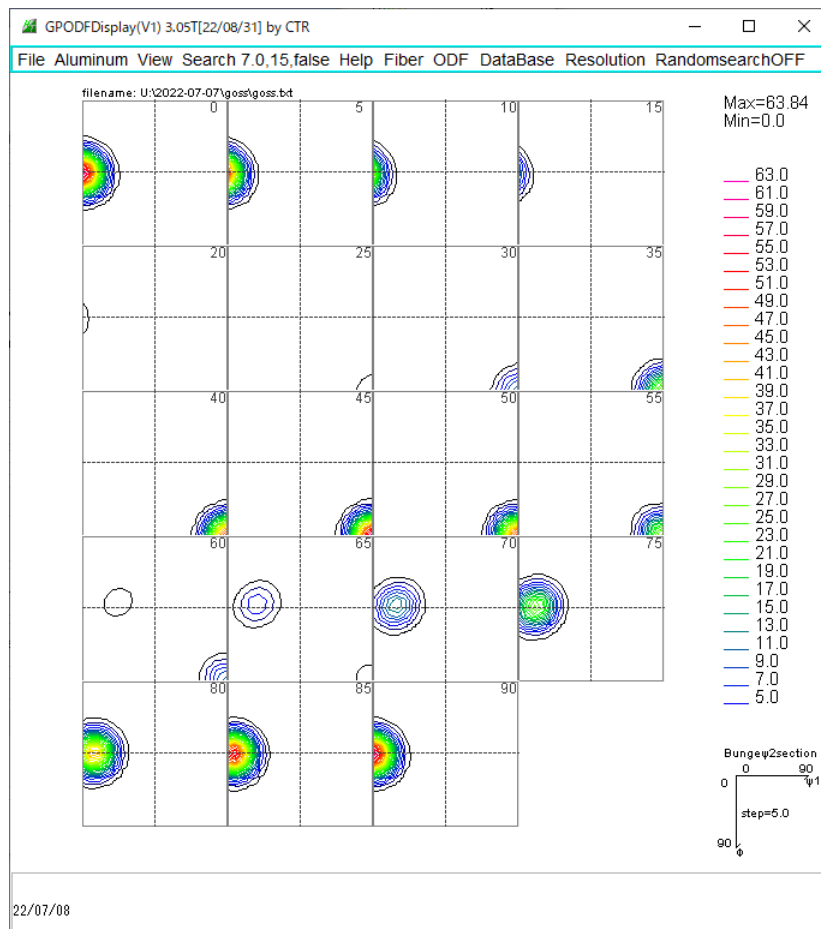
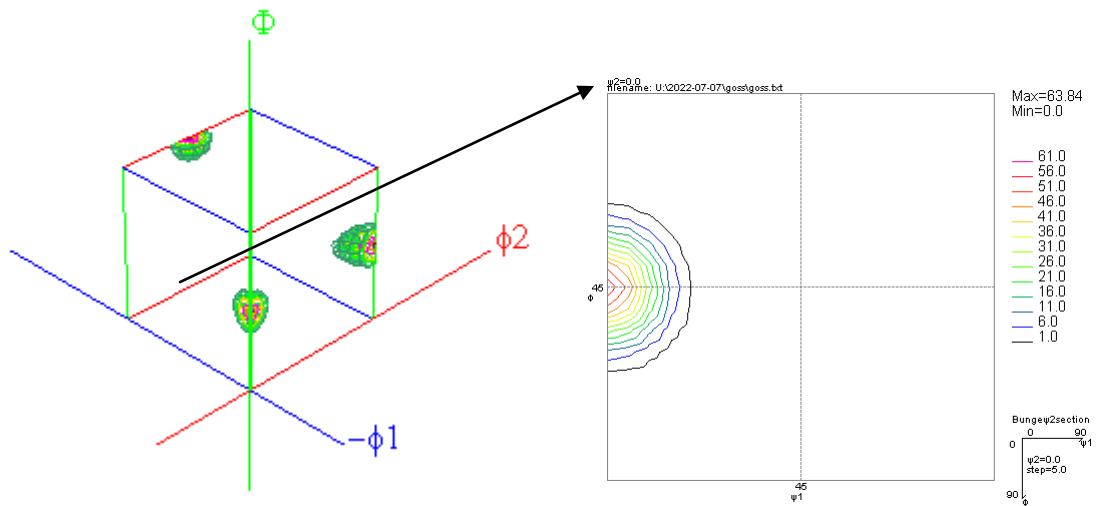
2022年07月08日

HelperTex Office

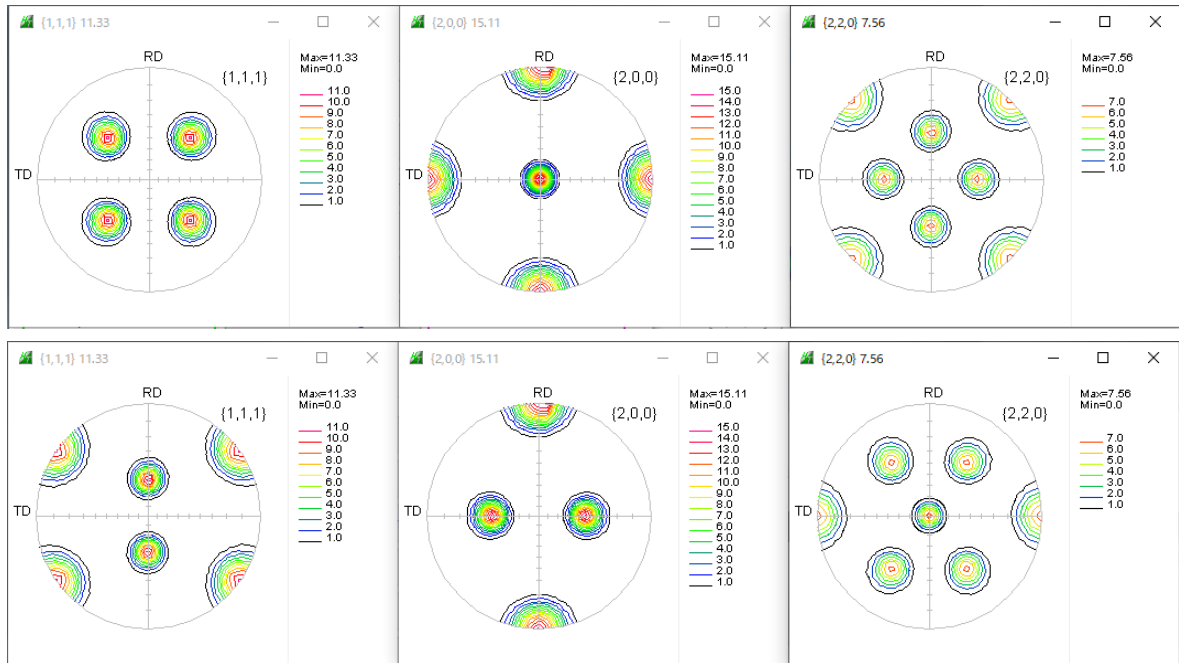
概要

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。



極点図をCubeと比較



Cube 方位からRD軸 (X) を45度回転で得られます。

PFRotation 1.18T[22/08/31] by CTR

File Help Polefigure(3D)

TXT2 files select
 Path: U:\2022-07-07\cube
 File: 111_bt-rp_2.TXT 200_bt-rp_2.TXT 220_bt-rp_2.TXT

Rotation(-360 ≤ degrees ≤ 360) or vector machine axis
 Along RD(X) 1 45 Along TD(Y) 2 0 Along ND(Z) 3 0 4 0 toOrthorhombic **Rotate PoleFigure**

Check
 Previous Next 111_bt-rpR45T0N0.TXT Alfa angle check

Save
 Normalization TXT(Pole) ASC(Pole) Ras(Pole) TXT2(Pole) Save

あるいは vector[100]を 45 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>

0 0 1 1 0 0 Disp

Rotation vector of crystal axis

1 0 0 SET CTD

Rotation vector of machine axis(Lab-TeX, MTEX)

1 0 0 SET

Rotation angle

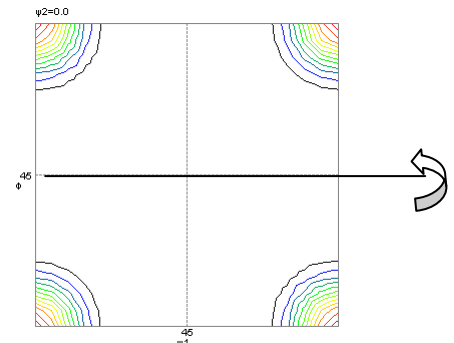
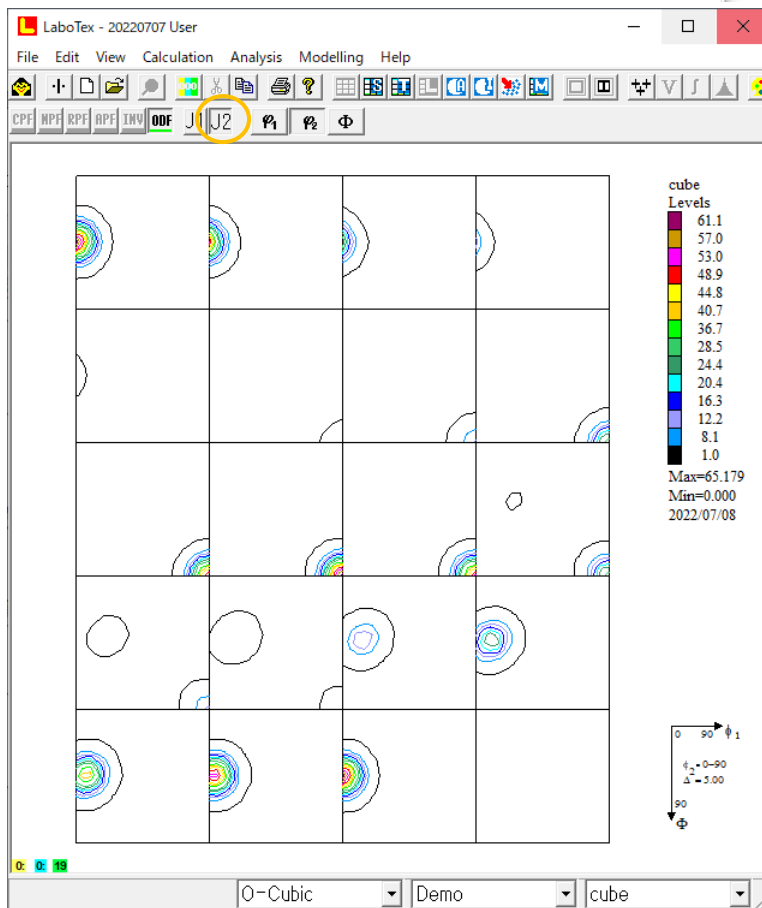
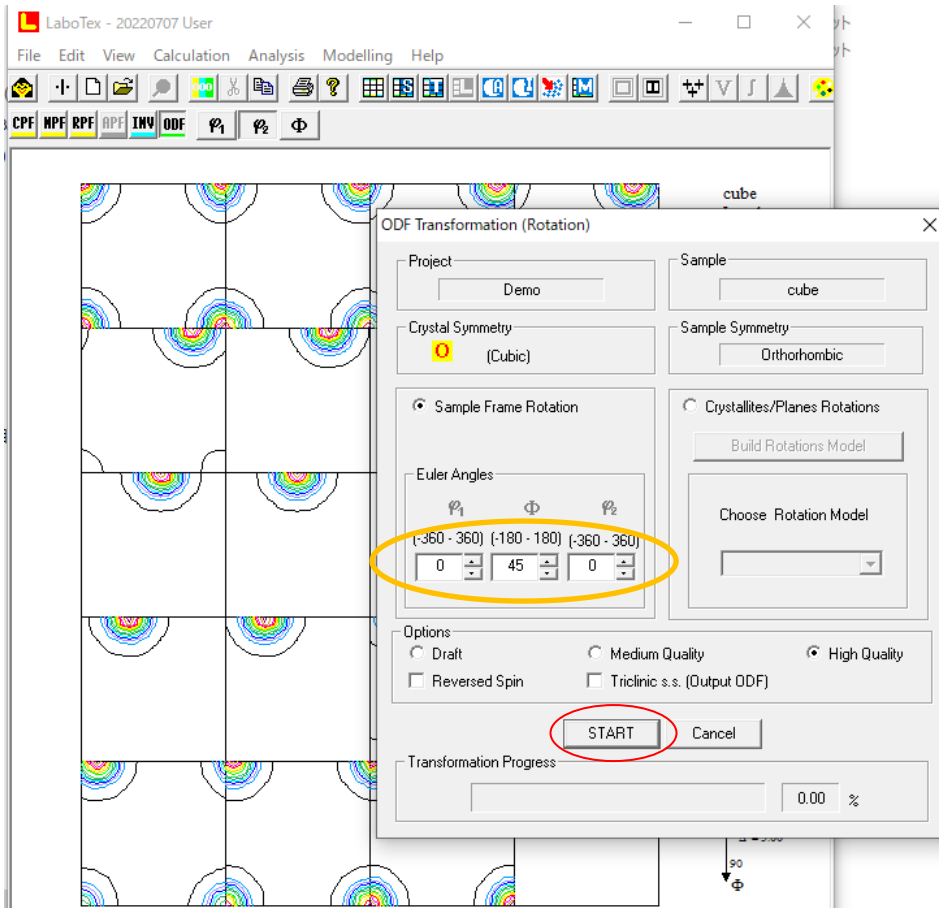
45 Calc Disp

Result

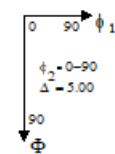
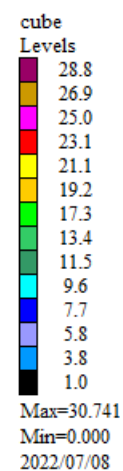
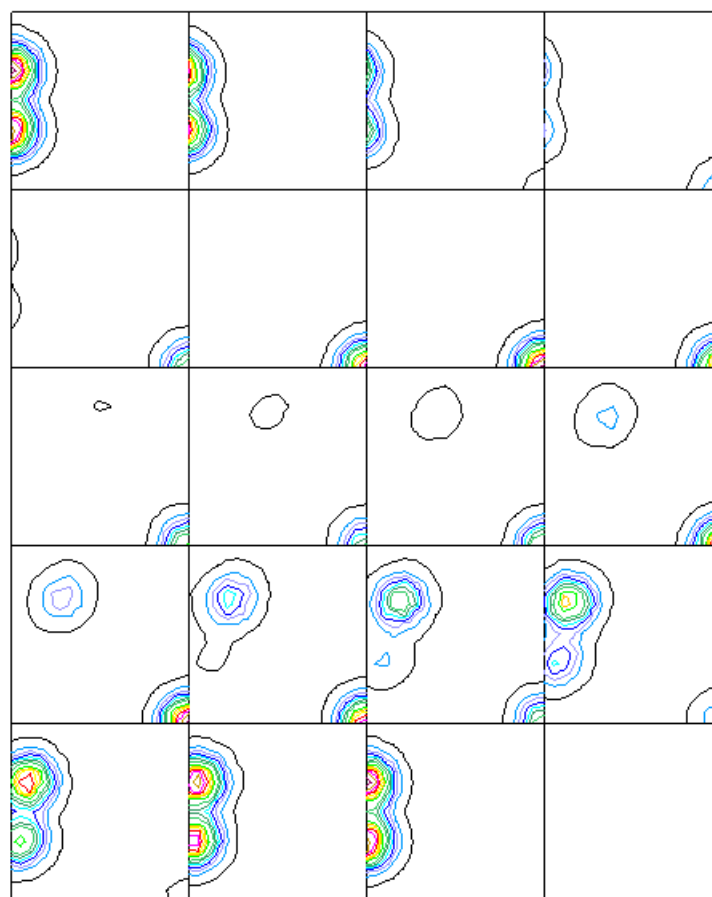
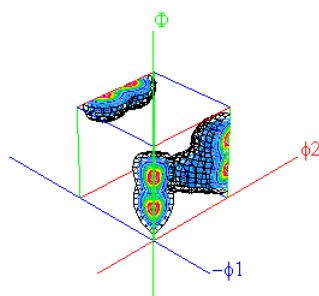
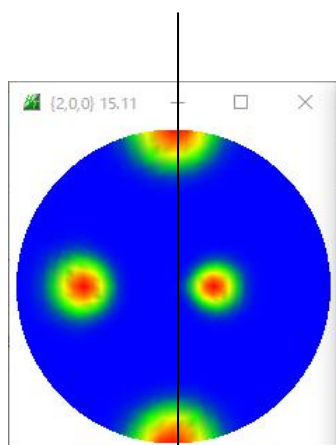
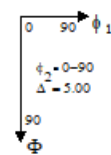
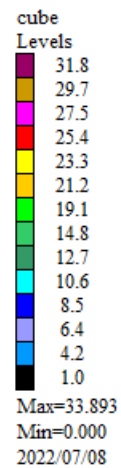
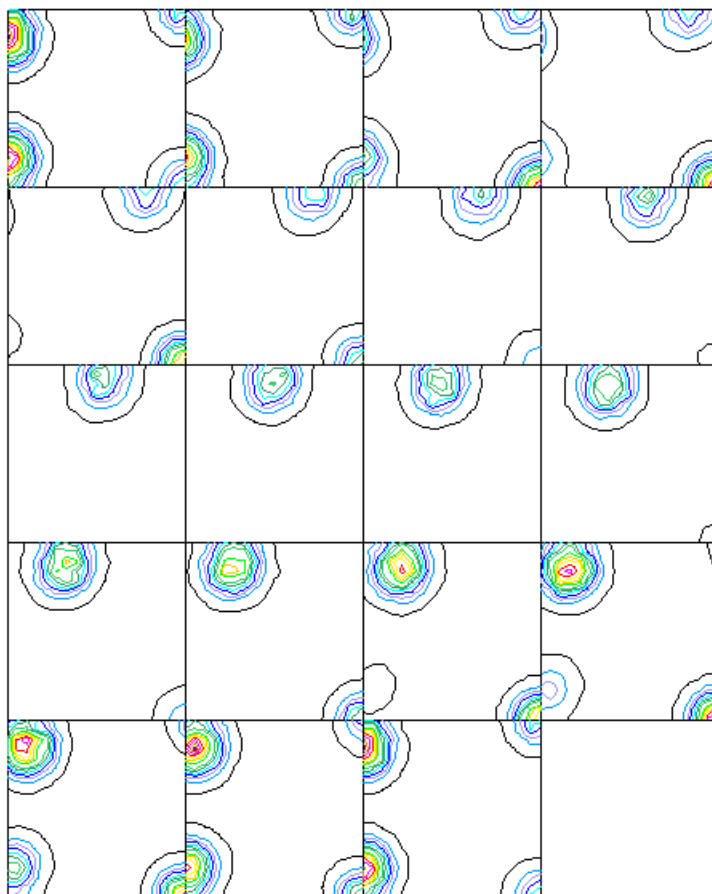
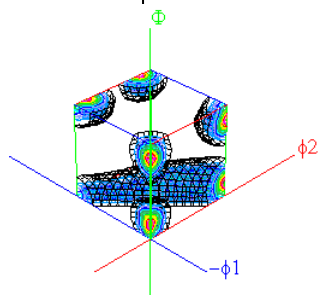
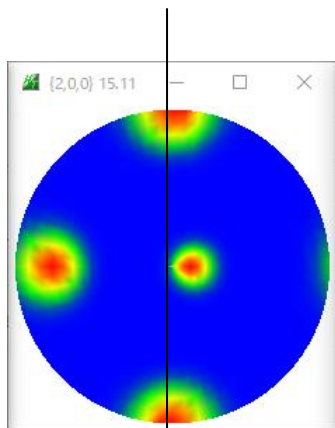
```
{001}<100> eulerangle:(0.0,0.0,0.0)
g(ψ1 Φ ψ2)=
  1.0  0.0  0.0
  0.0  1.0  0.0
  0.0  0.0  1.0
Rotation [100] angle:45.0
Calc-d=(1.0,0.0,0.0)
a(100),45.0=
  1.0  0.0  0.0
  0.0  0.7071  0.7071
  0.0 -0.7071  0.7071
ag=
  1.0  0.0  0.0
  0.0  0.7071  0.7071
  0.0 -0.7071  0.7071
Calc Miller indices
{0 1 1}<1 0 0>
```

{0 1 1}<1 0 0> set|hkl|Kuvw>

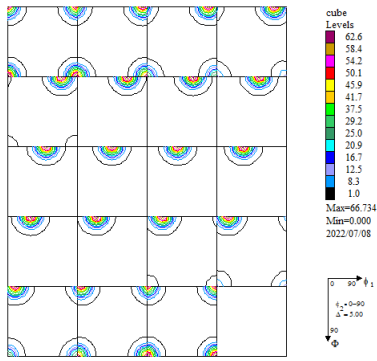
C u b e O D F を Φ 軸回転で得られます。



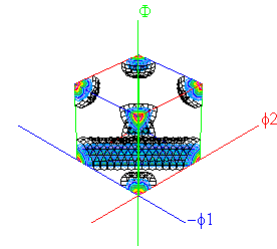
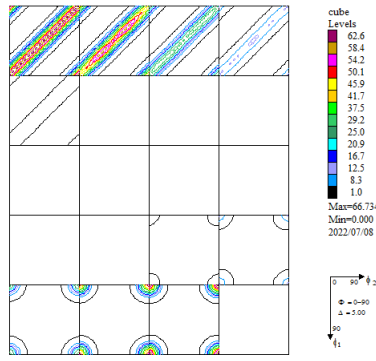
分かりにくいので中間の $\Phi = 15$, $\Phi = 30$ を参考にしてください。



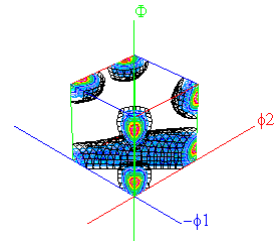
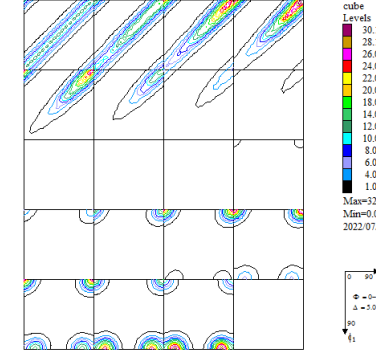
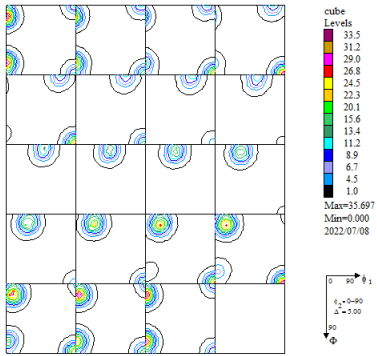
C u b e ϕ 2 断面



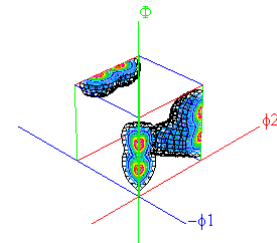
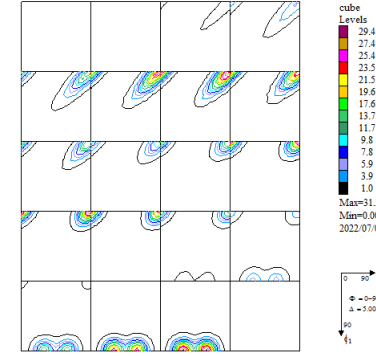
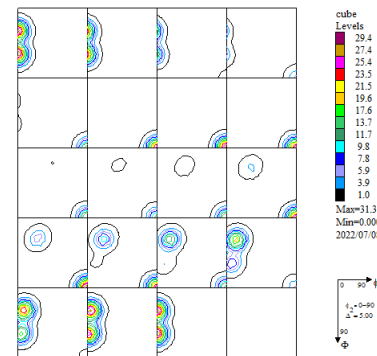
Φ 断面



C u b e Φ 軸 1 5 度 回 轉



C u b e Φ 軸 3 0 度 回 轉



C u b e Φ 軸 4 5 度 回 轉 (G o s s)

