

Mg-TD-splitの

入力極点図範囲によるNTEXODF解析結果

FWHM=20deg

α 範囲	ODFMax	(013)[100] 密度	LaboTexODFMax	LaboTex(013)[100] 密度
90	8.88	8.69	9.82	9.82
85	9.25	8.76	10.25	10.25
80	9.2	8.79	9.97	9.97
75	9.39	8.94	11.05	10.73
70	9.01	8.55	9.2	9.2
65	9.03	8.44	9.78	9.62

ODF図の半価幅を10degから20degに変更するとODF密度はほぼ同一結果
randomレベルを示す密度Minでは、LaboTexが荒れているに対し、
MTEXは安定している。

半価幅が10degでは追随しないが20degで追随する。
展開係数のような設定変更が可能なら半価幅10degも可能と思われるが内部処理が不明

2019年01月29日

HelperTex Office

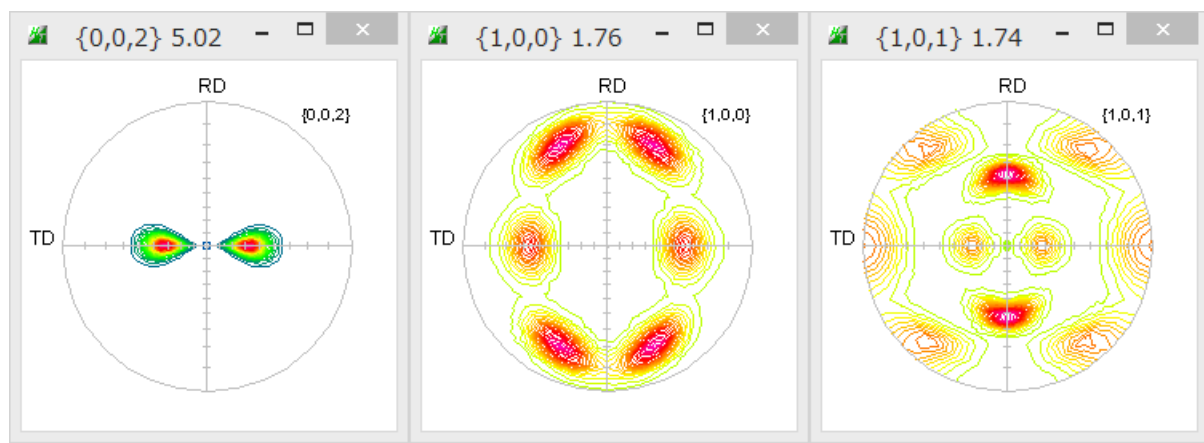
概要

前回、FWHM=10degでLaboTex, MTEXを比較したが、

α 範囲	ODFMax	(013) [100]密度	LaboTexODFMax	LaboTex(013) [100]密度
90	18.67	18.45	74.64	74.64
85	18.97	18.37	71.31	71.31
80	18.22	17.72	71.27	71.27
75	15.66	15.18	69.38	69.38
70	7.33	6.95	69.85	69.85

差異が大きいのので、FWHM=20degで比較を行う。

$\alpha = 0 \rightarrow 90$ の極点図



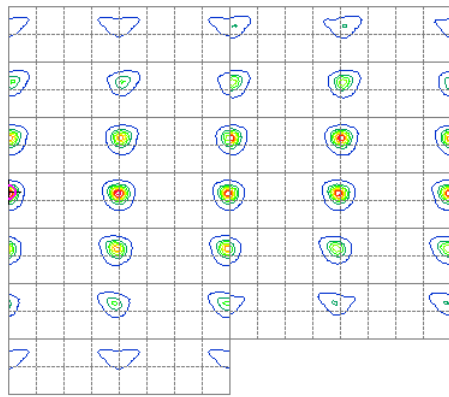
この極点図の α 範囲を変えて比較する。

$\alpha = 0 \rightarrow 90$

MTEX

LaboTex

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\MTEX\ODF90.bt



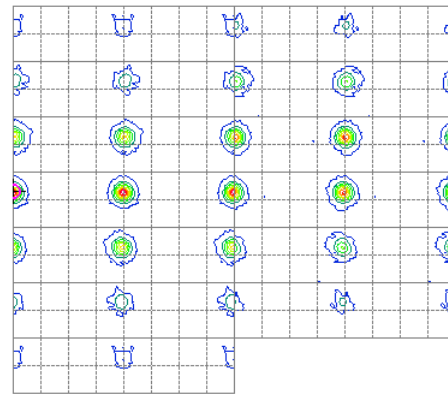
Max=8.88
Min=0.82



BType X=[10-10]
Bungeψ2section
0 360
ψ1
ψ2=0->60
step=5.0

(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=8.69

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\LaboTex\CW90.TXT



Max=9.82
Min=0.61

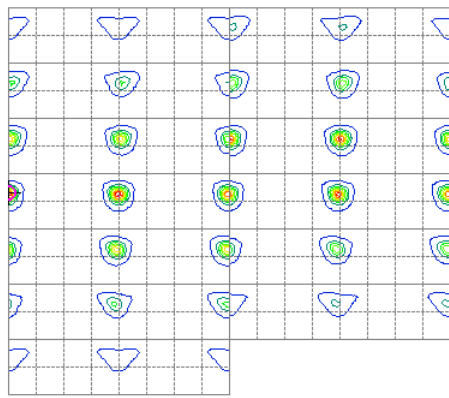


BType X=[10-10]
Bungeψ2section
0 360
ψ1
ψ2=0->60
step=5.0

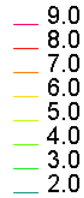
(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=9.82

$\alpha = 0 \rightarrow 85$

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\MTEX\85.bt



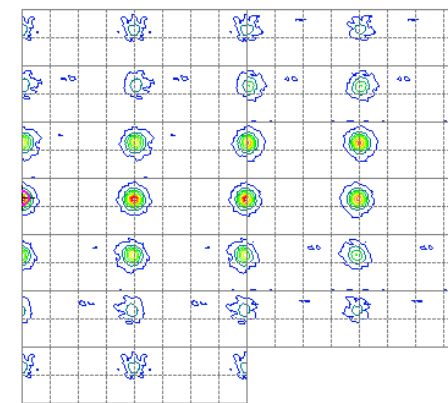
Max=9.25
Min=0.82



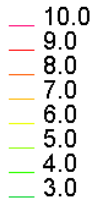
BType X=[10-10]
Bungeψ2section
0 360
ψ1
ψ2=0->60
step=5.0

(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=8.76

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\LaboTex\CW85-2.TXT



Max=10.25
Min=0.25

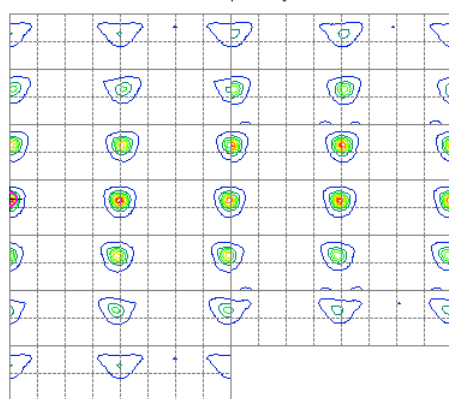


BType X=[10-10]
Bungeψ2section
0 360
ψ1
ψ2=0->60
step=5.0

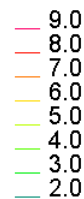
(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=10.25

$\alpha = - \rightarrow 80$

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\MTEX\80.bt



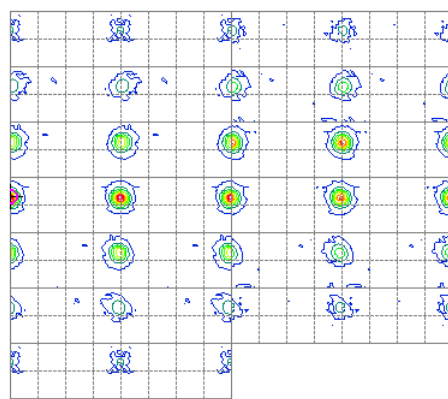
Max=9.2
Min=0.82



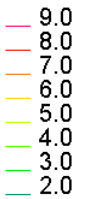
BType X=[10-10]
Bungeψ2section
0 360
ψ1
ψ2=0->60
step=5.0

(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=8.79

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\LaboTex\CW80-2.TXT



Max=9.97
Min=0.34

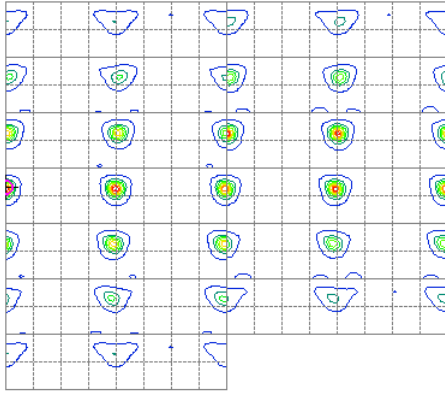


BType X=[10-10]
Bungeψ2section
0 360
ψ1
ψ2=0->60
step=5.0

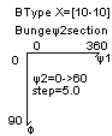
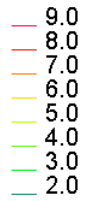
(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=9.97

$\alpha = 0 \rightarrow 7.5$

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\MTEX\75.bt

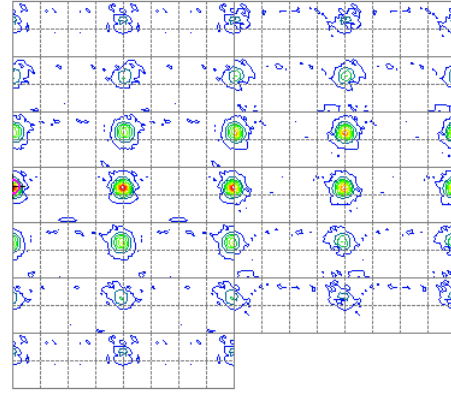


Max=9.39
Min=0.82

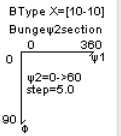


(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=8.94

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\LaboTex\CW75-2.TXT



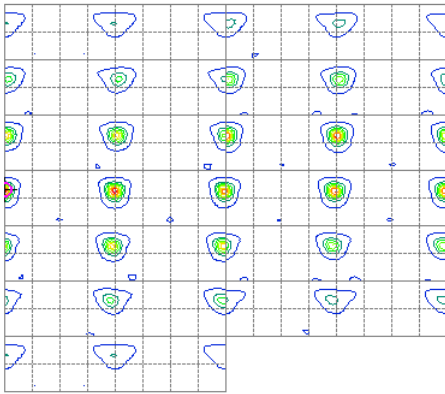
Max=11.05
Min=0.13



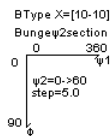
(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=10.73

$\alpha = 0 \rightarrow 7.0$

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\MTEX\70.bt

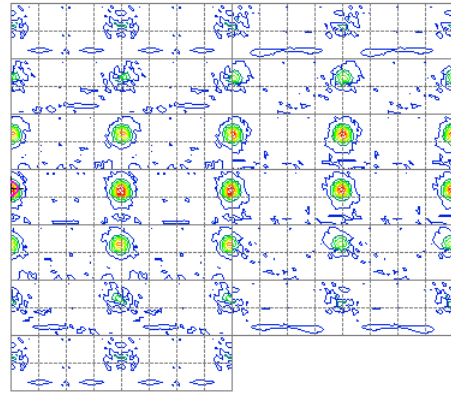


Max=9.01
Min=0.83

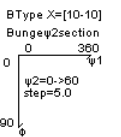
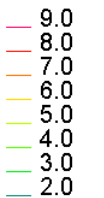


(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=8.55

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\LaboTex\CW70-2.TXT



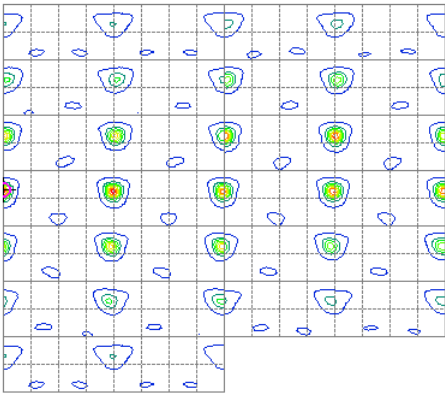
Max=9.2
Min=0.0



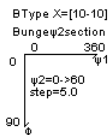
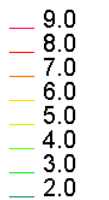
(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=9.2

$\alpha = 0 \rightarrow 6.5$

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\MTEX\65.bt

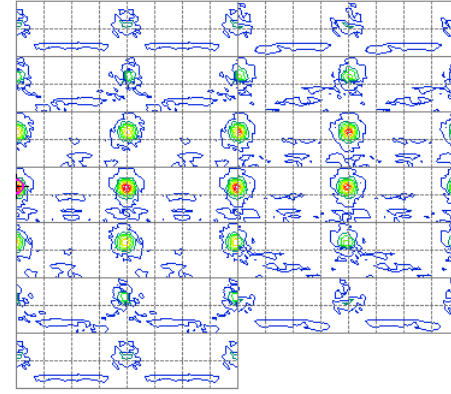


Max=9.03
Min=0.82

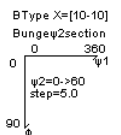
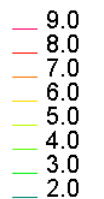


(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=8.44

filename: U:\MATLAB-MTEX\M6-TD-Split20deg-10\LaboTex\CW65.TXT



Max=9.78
Min=0.0



(0,1,3)[1,0,0]f1=0.0,F=32.0,f2=30.0 ODF=9.62

MTE XとCTRの格子定数

Import Wizard

Crystal Reference Frame
Crystal Symmetry

Mineral

Indexed Not Indexed

mineral name: Mg Load Cif File

plotting color: light blue

Crystal Coordinate System

Point Group: 6/mmm X || a* Y || b

Axis Length: a 3.20927 b 3.20927 c 5.21033

Axis Angle: alpha 90 beta 90 gamma 120

Plot << Previous Next >> Finish

$$c / a = 1.6235$$

MagnesiumDISP
Hexagonal
3.2061 (1.0)
3.2061 (1.0)
5.2091 (1.6247)
90.0
90.0
120.0
1.54056