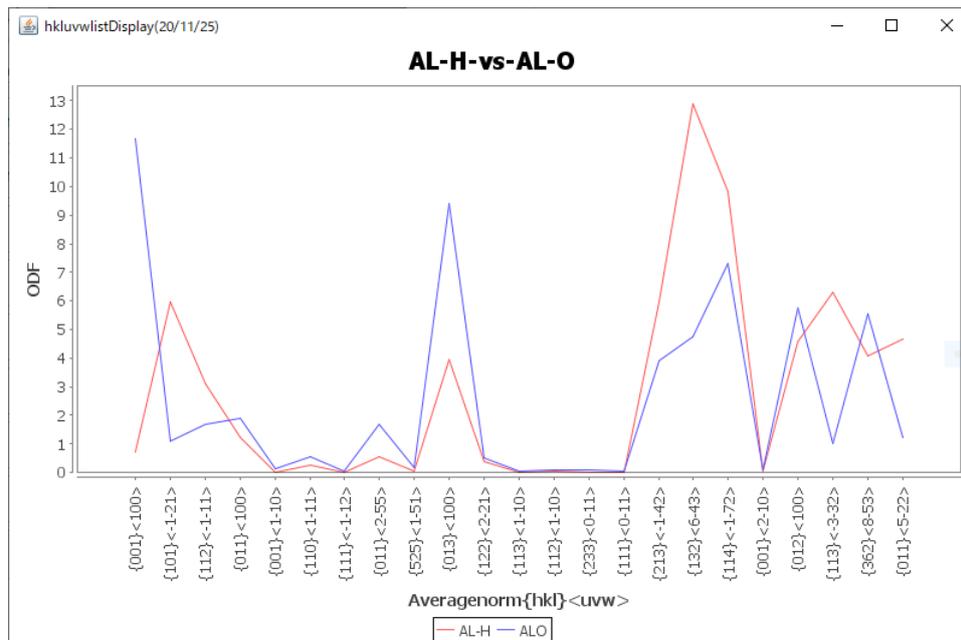


# 羅列データのグラフ化

以下の画面をコマンドから表示



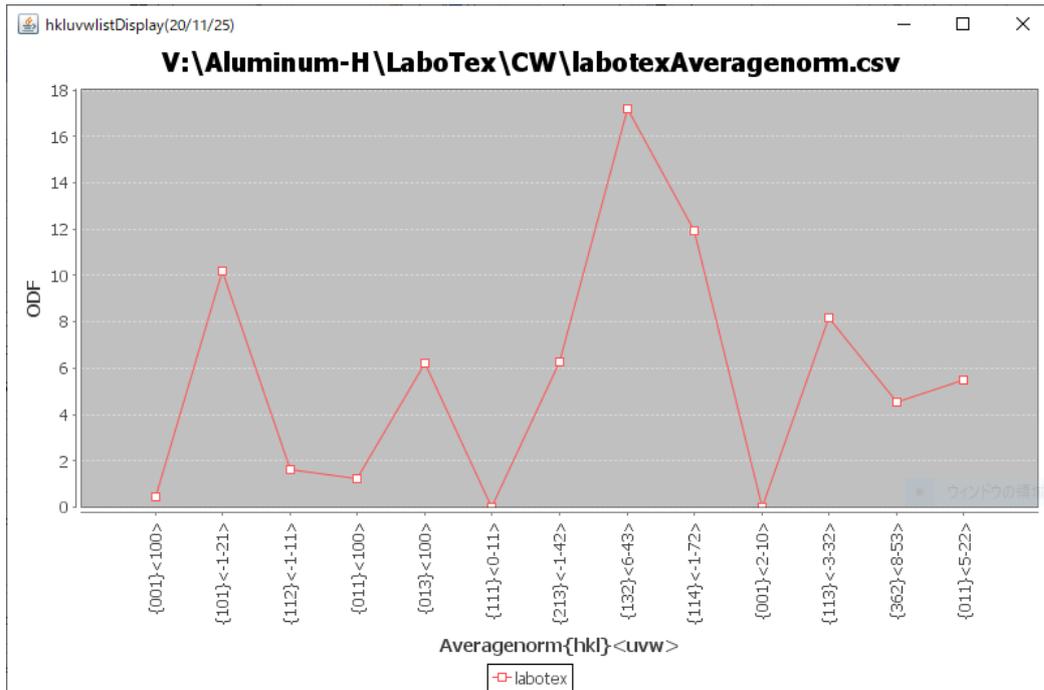
2020年11月25日

*HelperTex Office*

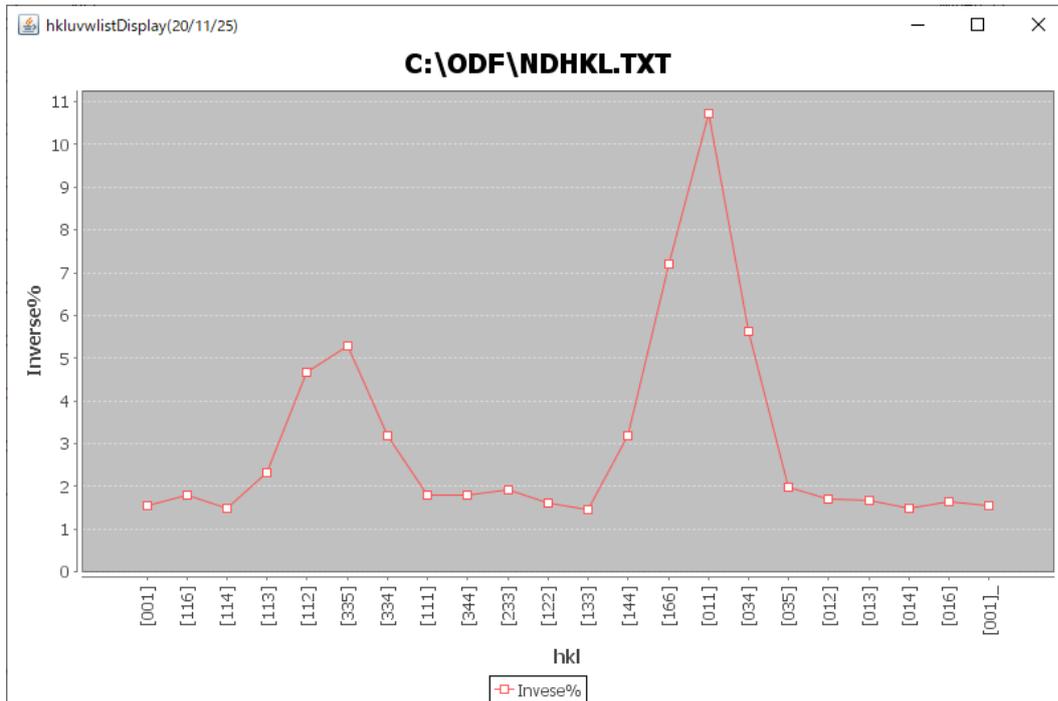
## 1. 概要

多重記録、円グラフを紹介しましたが、横軸が数値ではない多重記録があります。テキストデータを作成し、コマンドから表示できます。

GPODFDisplay

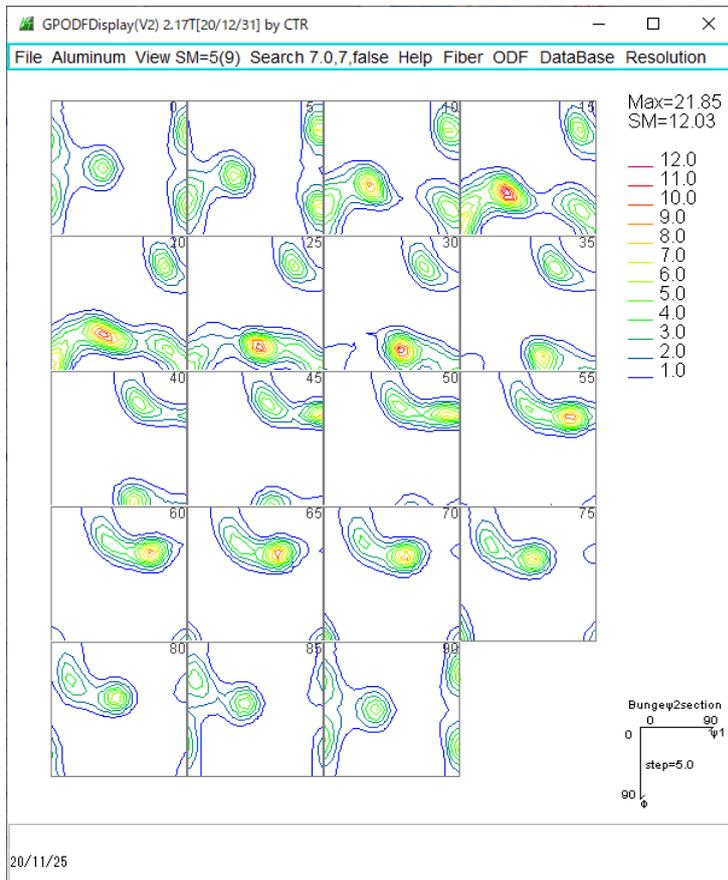


GPInverseDisplay

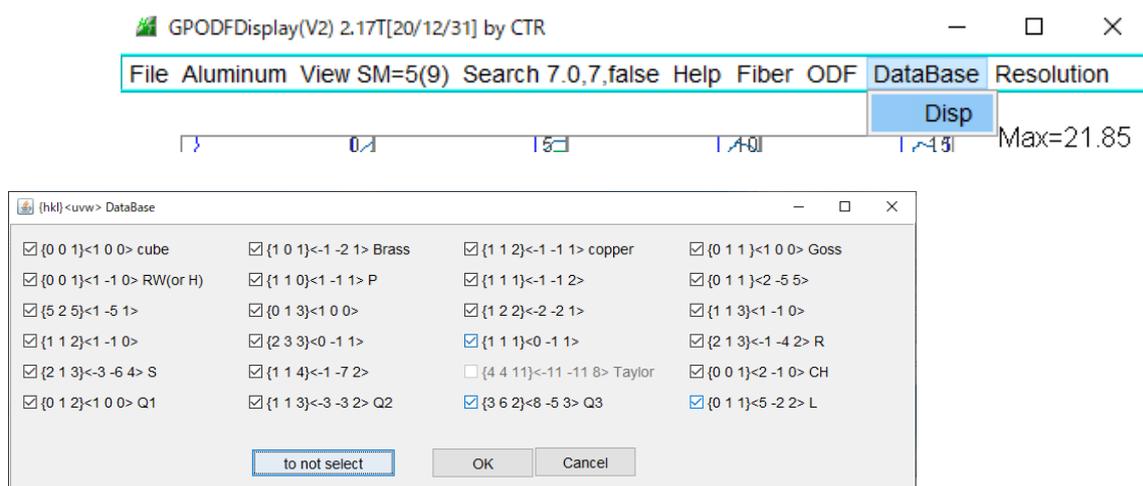


表示は、テキストデータを hkluvwDisplayGraph で表示しています。

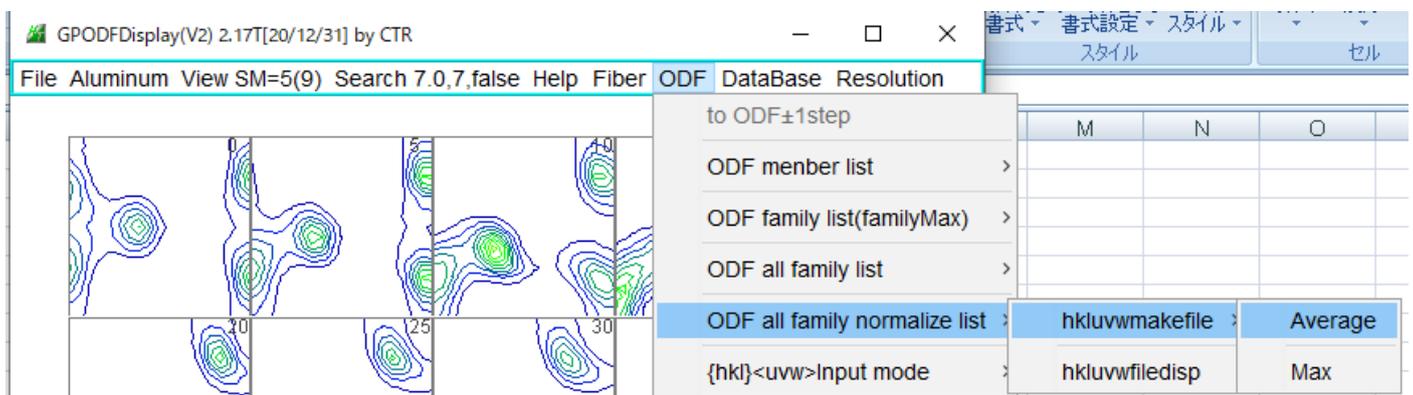
## 2. GPODFDisplayソフトウェアの動作



方位計算を行う方位指定



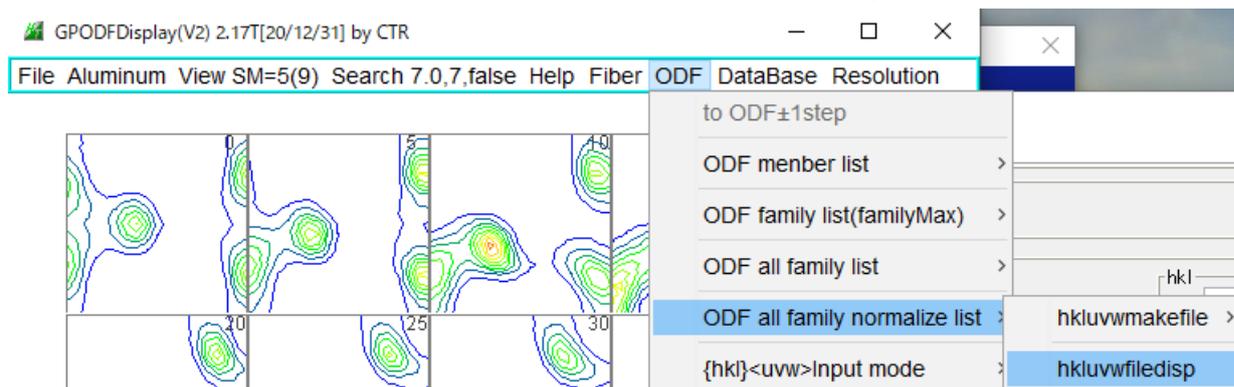
規格化方位密度の平均値で計算を行う。



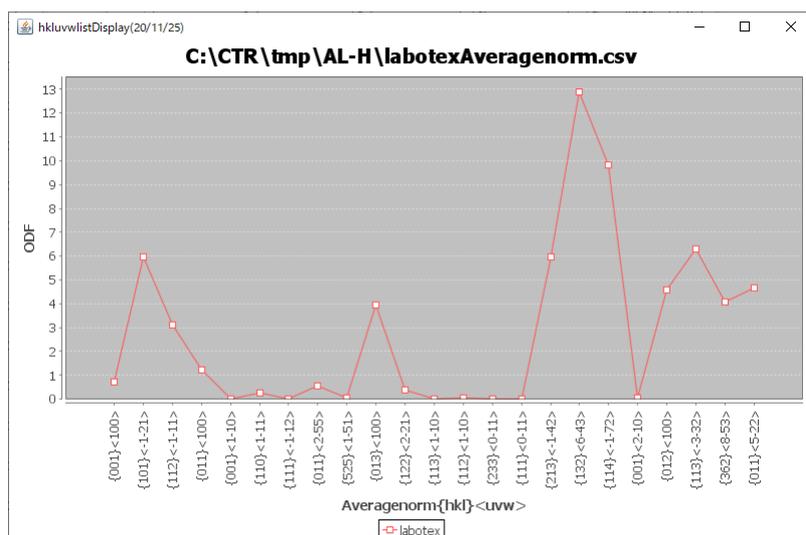
以下が表示される。

```
labotexAveragenorm.csv - メモ帳
ファイル(F) 編集(E) 書式(O) 表示(V) ヘルプ(H)
Averagenorm{hkl}<uvw>,labotex
{001}<100>,0.72
{101}<-1-21>,5.95
{112}<-1-11>,3.12
{011}<100>,1.21
{001}<1-10>,0.02
{110}<1-11>,0.27
{111}<-1-12>,0.01
{011}<2-55>,0.57
{525}<1-51>,0.04
{013}<100>,3.94
{122}<2-21>,0.39
{113}<1-10>,0.01
{112}<1-10>,0.03
{233}<0-11>,0.02
{111}<0-11>,0.01
{213}<-1-42>,5.97
{132}<6-43>,12.89
{114}<-1-72>,9.83
{001}<2-10>,0.03
{012}<100>,4.6
{113}<-3-32>,6.29
{362}<8-53>,4.09
{011}<5-22>,4.67
```

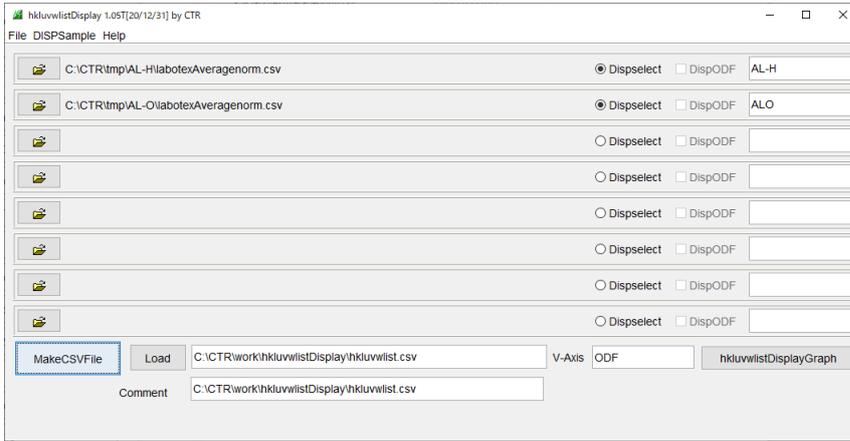
このファイルは ODF ファイルを選択したホルダに作成されています。



で表示されます。



### 3. 複数の方位密度を表示

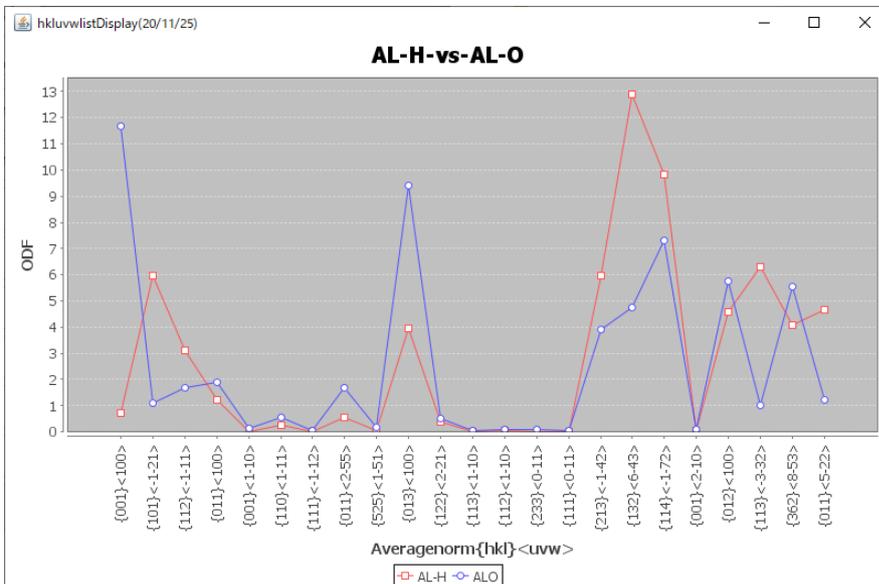


MakeCSVFile で C:\CTR\work\hkluvwDisplay\hkluvwlist.csv を作成

```

hkluvwlist.csv - メモ帳
ファイル(F) 編集(E) 書式(O) 表示(V) ヘルプ(H)
Averagenorm{hkl}<uvw>,AL-H,ALO
{001}<100>,0.72,11.67
{101}<-1-21>,5.95,1.11
{112}<-1-11>,3.12,1.7
{011}<100>,1.21,1.89
{001}<-1-10>,0.02,0.13
{110}<-1-11>,0.27,0.53
{111}<-1-12>,0.01,0.03
{011}<-2-55>,0.57,1.67
{525}<-1-51>,0.04,0.19
{013}<100>,3.94,9.4
{122}<-2-21>,0.39,0.51
{113}<-1-10>,0.01,0.04
{112}<-1-10>,0.03,0.08
{233}<-0-11>,0.02,0.07
{111}<-0-11>,0.01,0.03
{213}<-1-42>,5.97,3.91
{132}<-6-43>,12.89,4.75
{114}<-1-72>,9.83,7.29
{001}<-2-10>,0.03,0.1
{012}<100>,4.6,5.76
{113}<-3-32>,6.29,1.02
{362}<-8-53>,4.09,5.55
{011}<-5-22>,4.67,1.24
    
```

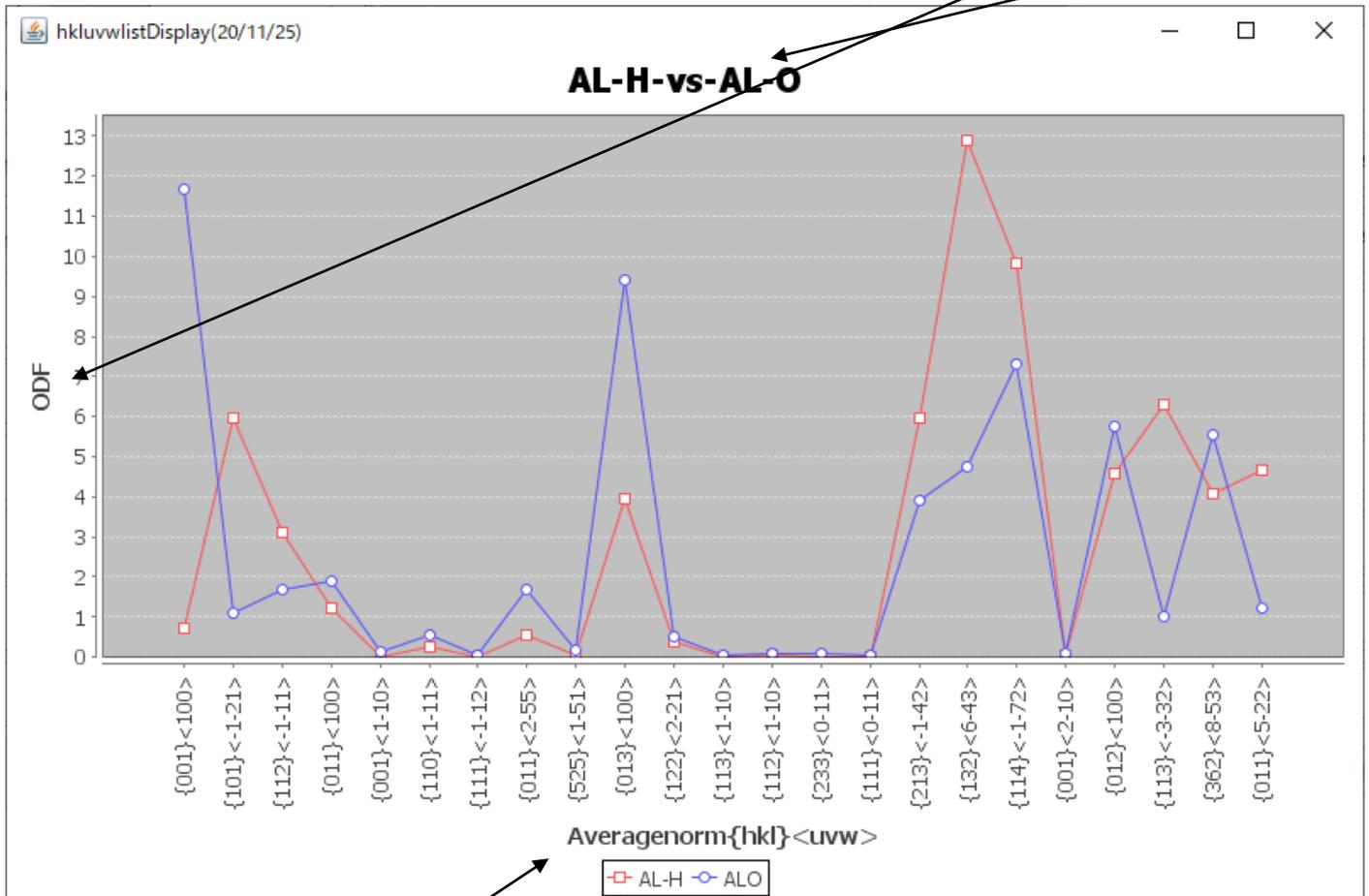
hkluvwDisplayGraph で上位 csv ファイルを表示する。



#### 4. コマンドで表示

```
java -jar JARFILE CSVFILE YSCALE COMMENT
```

```
java -jar c:\CTR\bin\hkluvwlistDisplayGraph.jar C:\CTR\work\hkluvwlistDisplay\hkluvwlist.csv ODFValue AL-H-vs-AL-O
```



```
jarFile=C:\CTR\bin\hkluvwlistDisplayGraph.jar
CSVファイル
```

```
hkluvwlist.csv 変換
ファイル(F) 編集(E) 書式(O) 表示(V) ヘルプ(H)
Averagenorm{hkl}<uvw>,AL-H,ALO
{001}<100>,0.72,11.67
{101}<-1-21>,5.95,1.11
{112}<-1-11>,3.12,1.7
{011}<100>,1.21,1.89
{001}<-1-10>,0.02,0.13
{110}<-1-11>,0.27,0.53
{111}<-1-12>,0.01,0.03
{011}<-2-55>,0.57,1.67
{525}<-1-51>,0.04,0.19
{013}<100>,3.94,9.4
{122}<-2-21>,0.39,0.51
{113}<-1-10>,0.01,0.04
{112}<-1-10>,0.03,0.08
{233}<-0-11>,0.02,0.07
{111}<-0-11>,0.01,0.03
{213}<-1-42>,5.97,3.91
{132}<-6-43>,12.89,4.75
{114}<-1-72>,9.83,7.29
{001}<-2-10>,0.03,0.1
{012}<100>,4.6,5.76
{113}<-3-32>,6.29,1.02
{362}<-8-53>,4.09,5.55
{011}<-5-22>,4.67,1.24
```

CSVファイルを作成すれば、コマンドからグラフ表示が可能になります。

5. マウス右クリックによるChart Propertiesによる変更

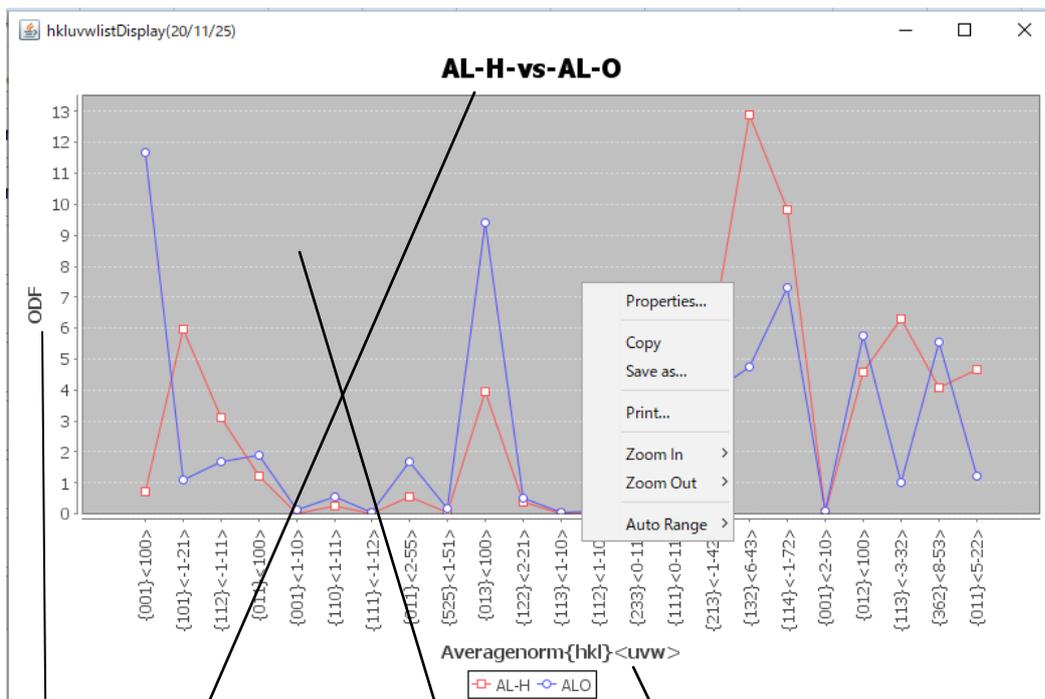


Chart Properties dialog box (Title tab):

- General:
  - Show Title:
  - Text: AL-H-vs-AL-O
  - Font: Tahoma Bold, 20
  - Color: [Black]

Chart Properties dialog box (Plot tab):

- Category Plot:
  - Domain Axis:
    - Label: Averagenorm{hkl}<uvw>
    - Font: Tahoma Bold, 14
    - Paint: [Black]
  - Other:
    - Ticks:
      - Show tick labels:
      - Tick label font: Tahoma, 12
      - Show tick marks:

Chart Properties dialog box (Plot tab):

- Category Plot:
  - Range Axis:
    - General:
      - Label: ODF
      - Font: Tahoma Bold, 14
      - Paint: [Black]
  - Other:
    - Ticks:
      - Show tick labels:
      - Tick label font: Tahoma, 12
      - Show tick marks:

Chart Properties dialog box (Appearance tab):

- Category Plot:
  - Appearance:
    - Outline stroke: [Black]
    - Outline paint: [Black]
    - Background paint: [Light Gray]
    - Orientation: Vertical
    - Draw Lines:
    - Draw Shapes: