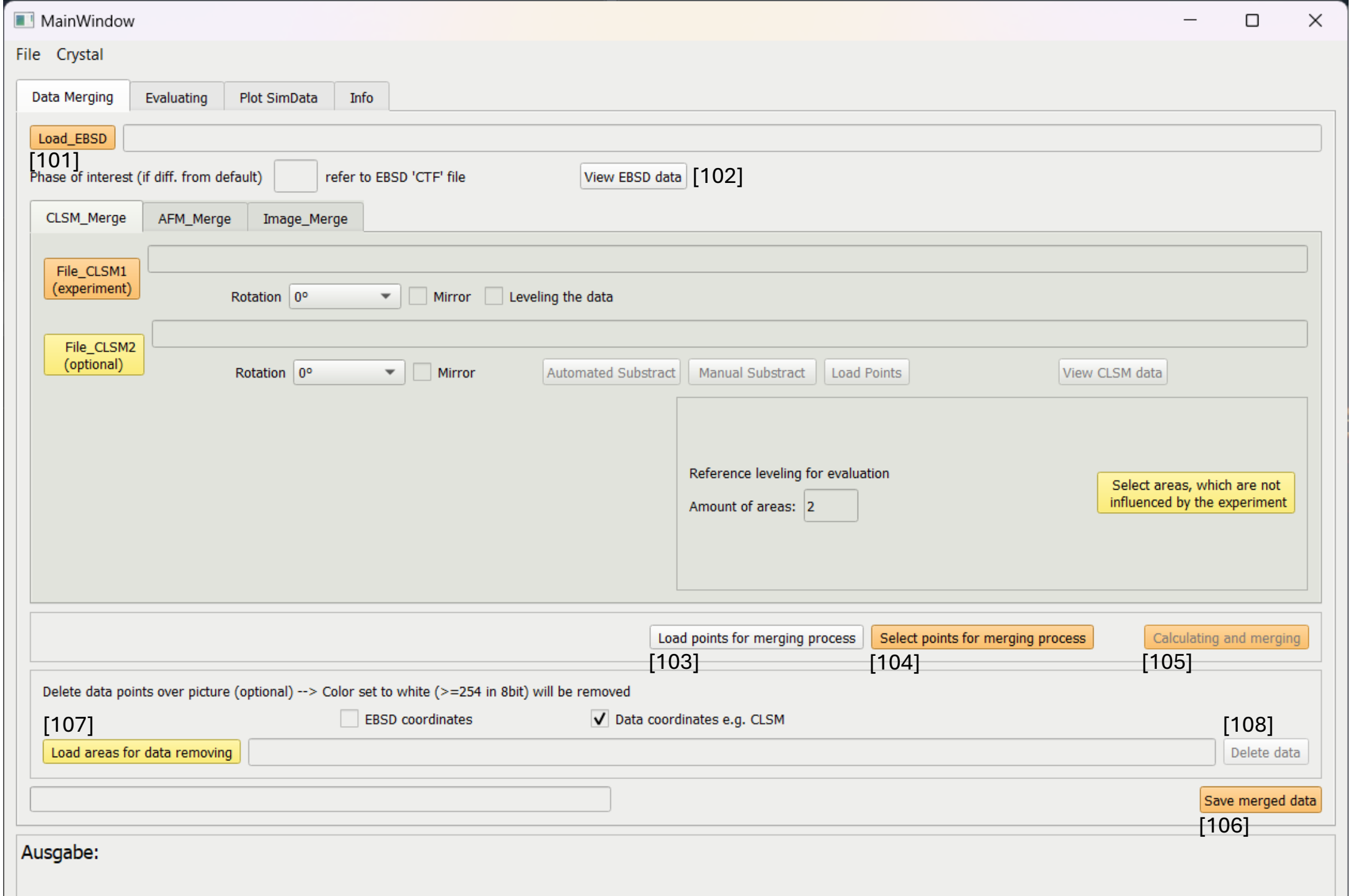
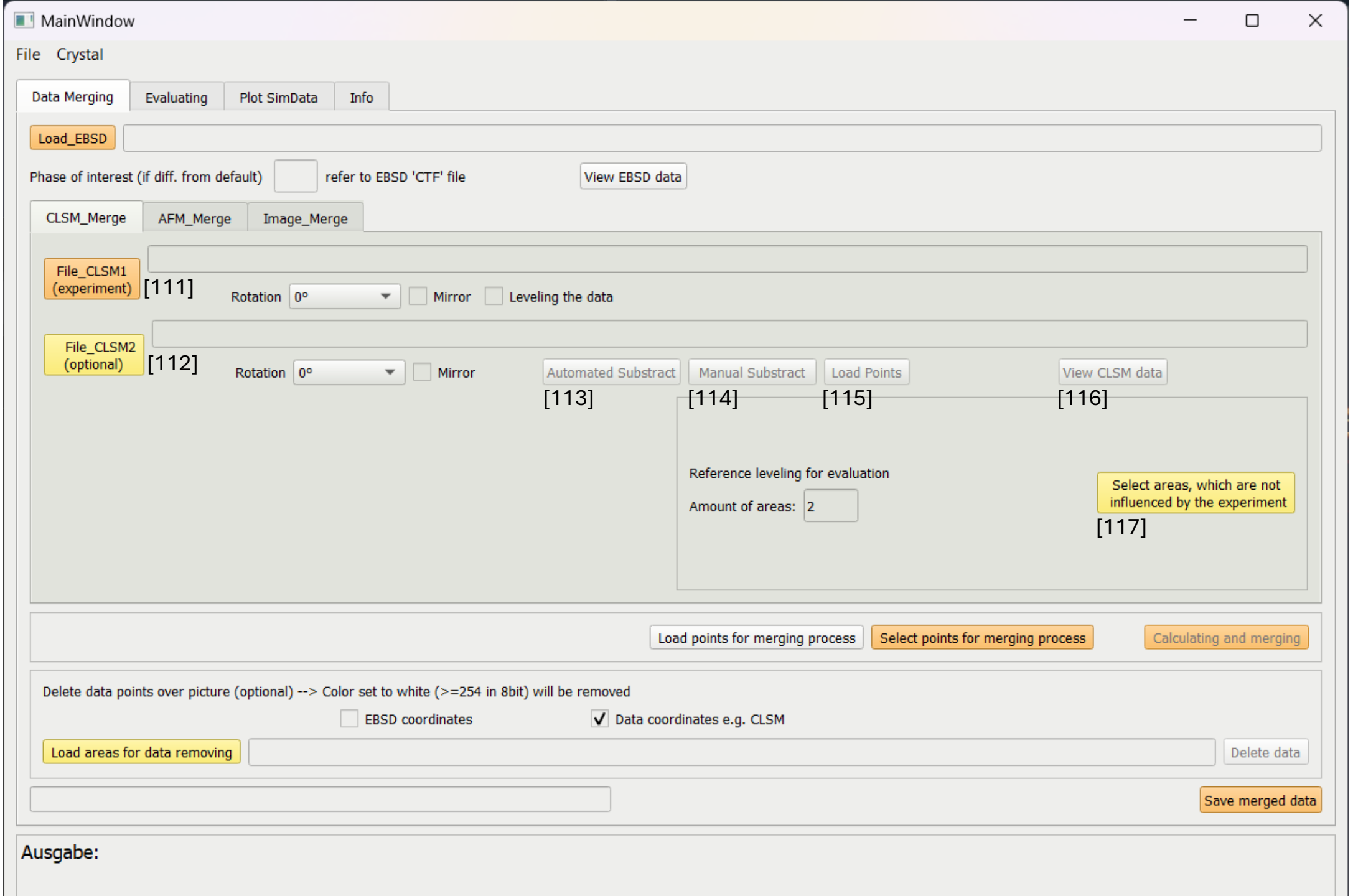
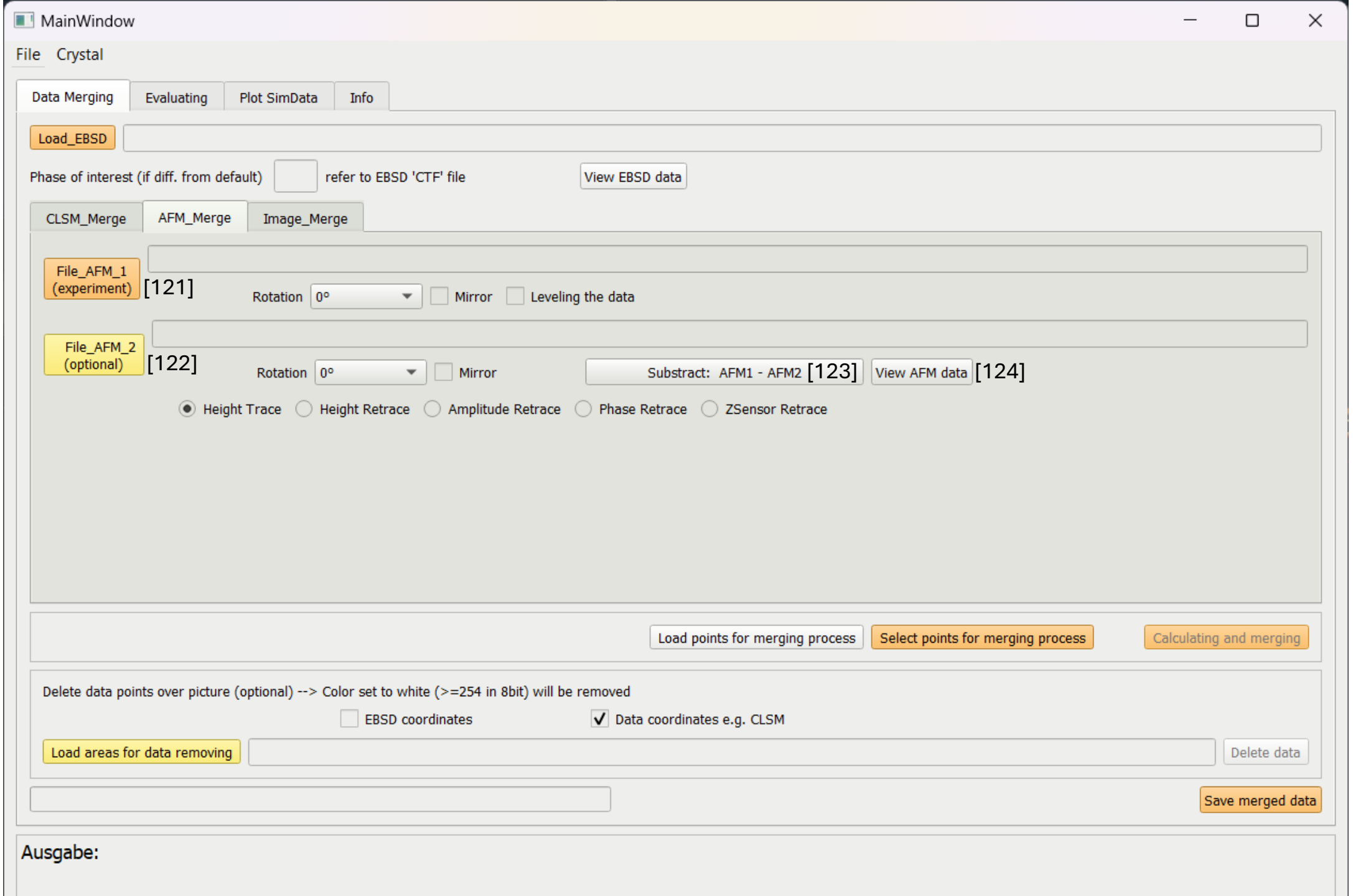
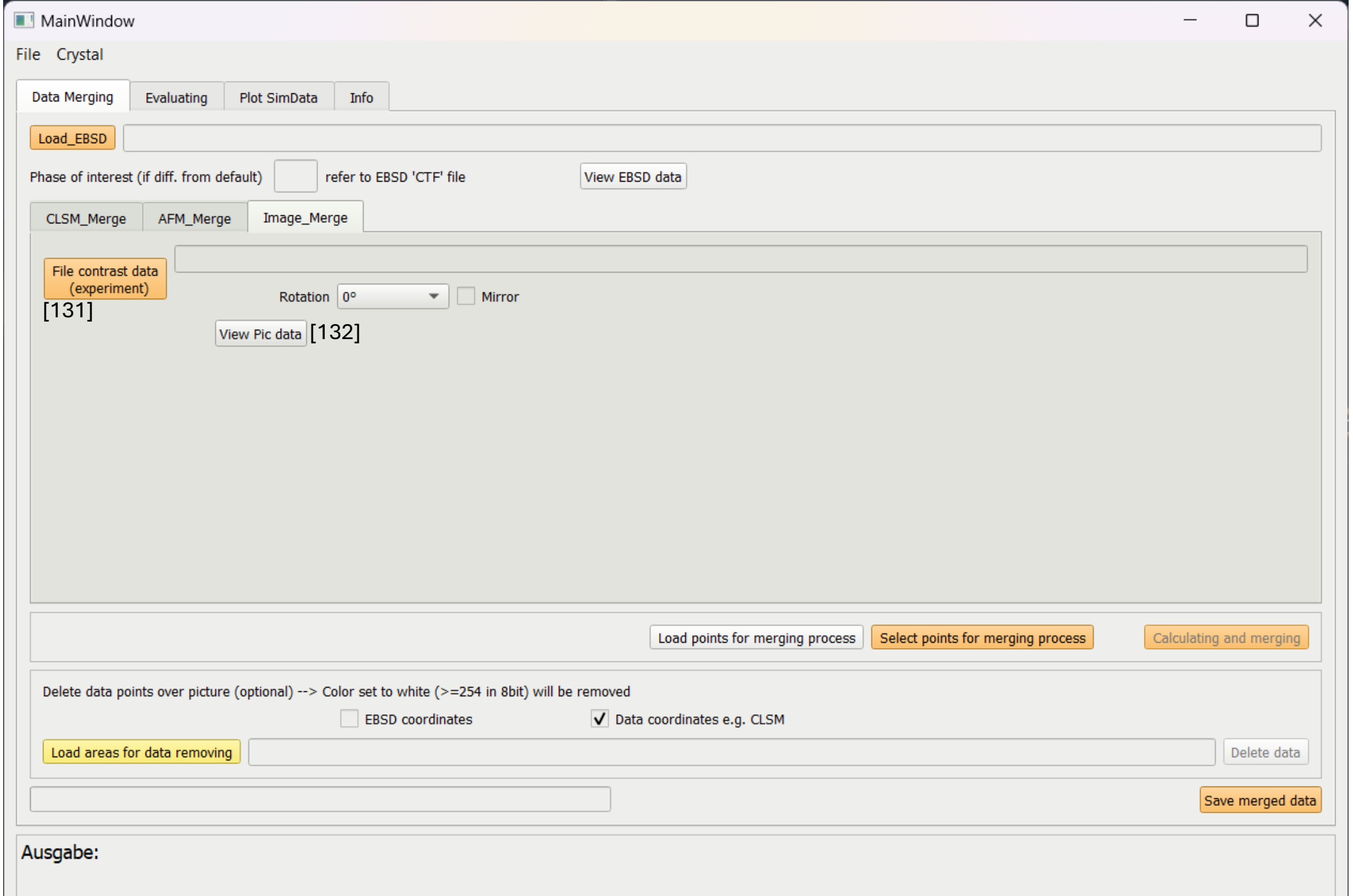
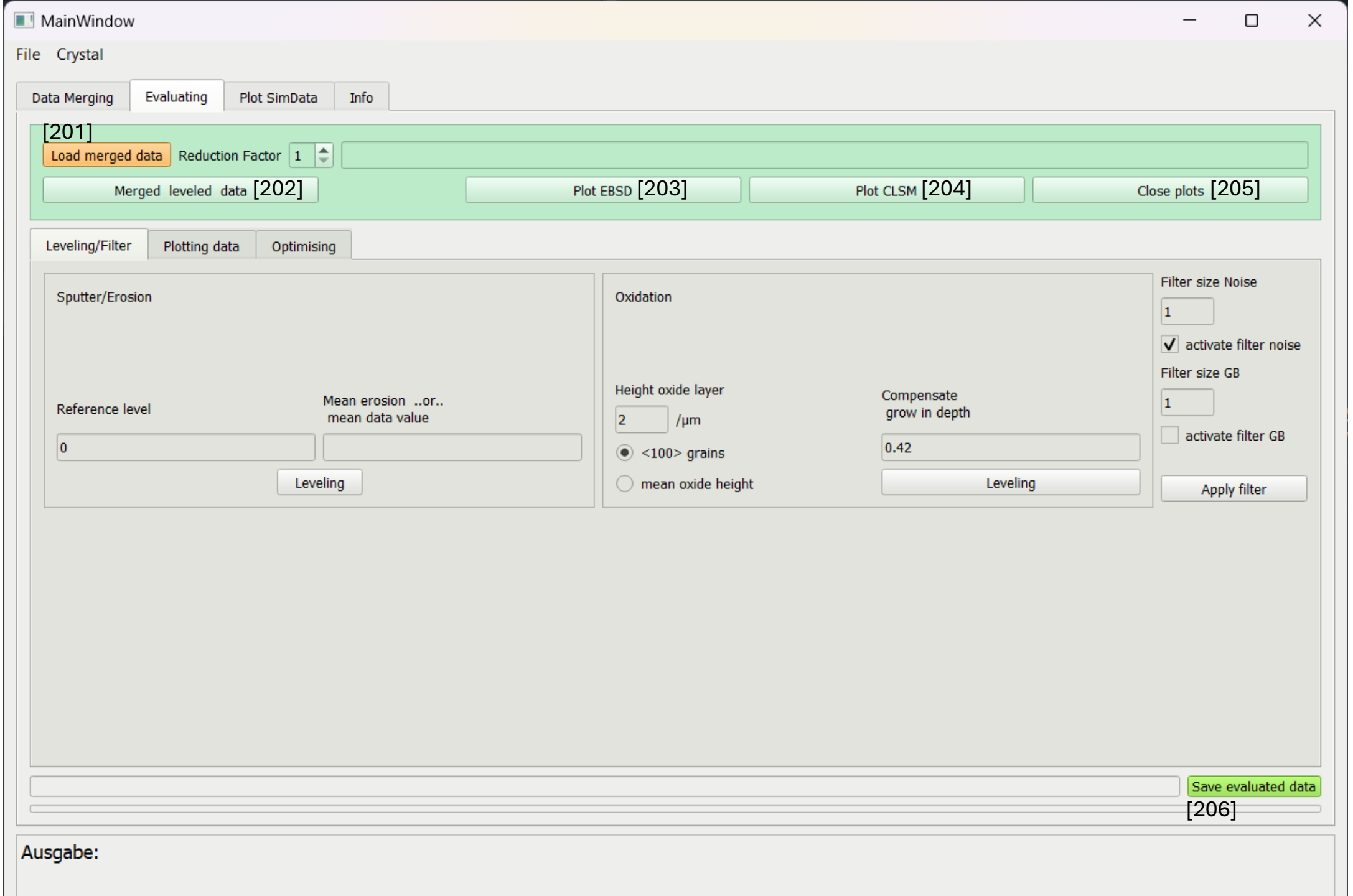
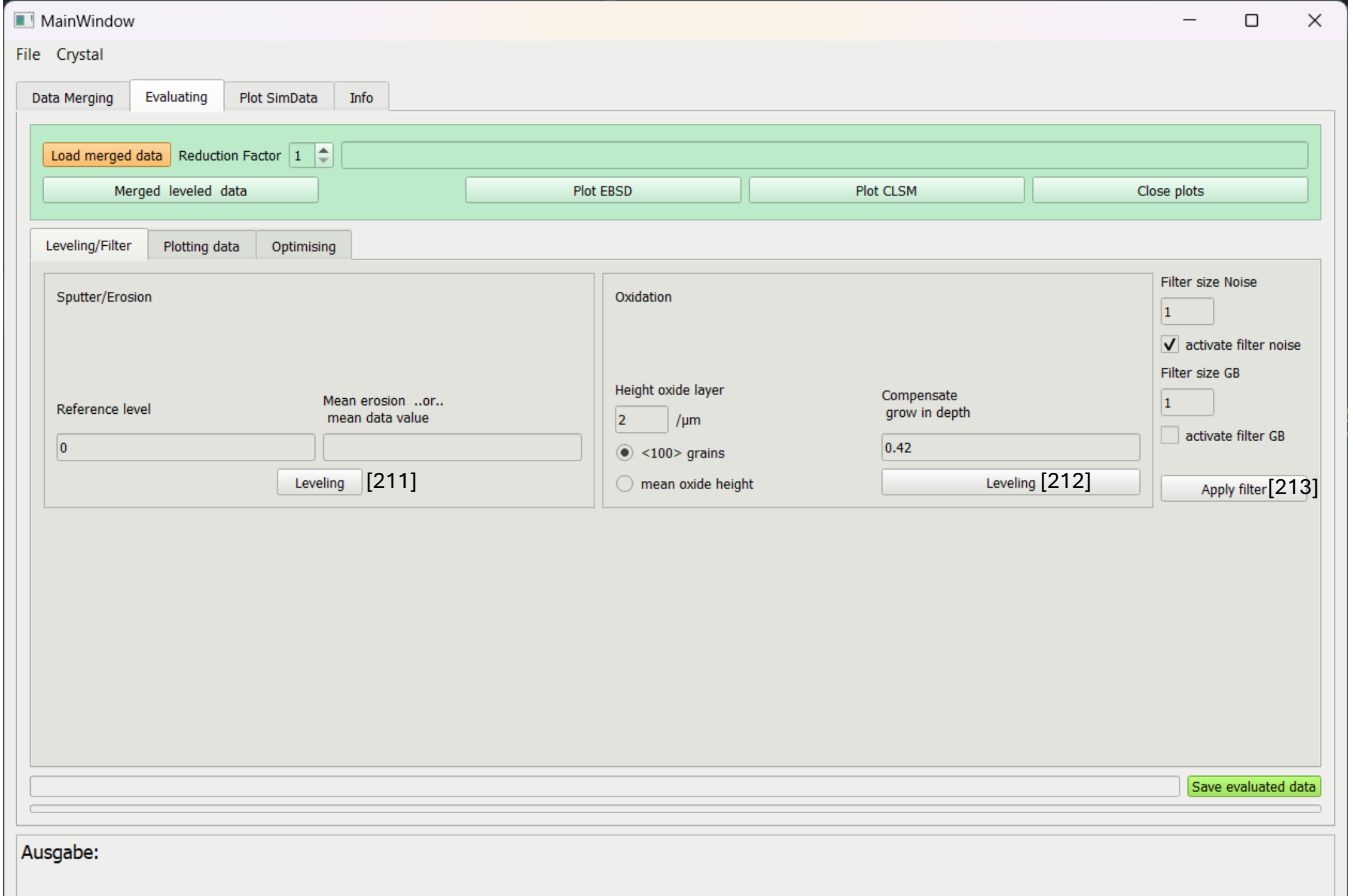

MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
Load_EBSD
[101]
Phase of interest (if diff. from default)
refer to EBSD 'CTF' file
View EBSD data
[102]
CLSM_Merge
AFM_Merge
Image_Merge
File_CLSM1 (experiment)
Rotation
0°
Mirror
Leveling the data
File_CLSM2 (optional)
Rotation
0°
Mirror
Automated Substract
Manual Substract
Load Points
View CLSM data
Reference leveling for evaluation
Amount of areas:
2
Select areas, which are not influenced by the experiment
Load points for merging process
[103]
Select points for merging process
[104]
Calculating and merging
[105]
Delete data points over picture (optional) --> Color set to white (>=254 in 8bit) will be removed
[107]
EBSD coordinates
Data coordinates e.g. CLSM
[108]
Load areas for data removing
Delete data
Save merged data
[106]
Ausgabe:

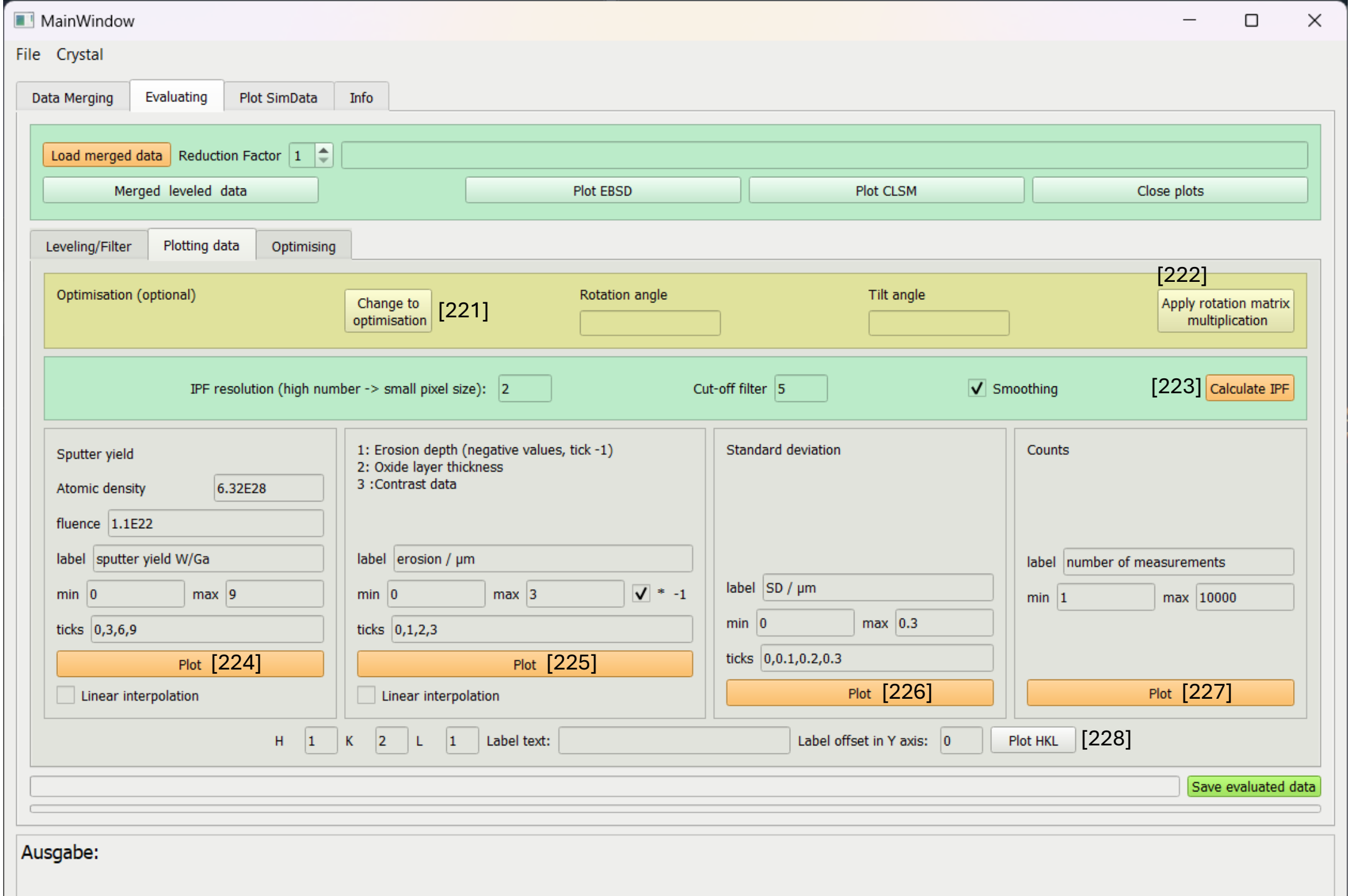

MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
Load_EBSD
Phase of interest (if diff. from default)
refer to EBSD 'CTF' file
View EBSD data
CLSM_Merge
AFM_Merge
Image_Merge
File_CLSM1 (experiment)
[111]
Rotation
0°
Mirror
Leveling the data
File_CLSM2 (optional)
[112]
Rotation
0°
Mirror
Automated Substract
Manual Substract
Load Points
View CLSM data
[113]
[114]
[115]
[116]
Reference leveling for evaluation
Amount of areas:
2
Select areas, which are not influenced by the experiment
[117]
Load points for merging process
Select points for merging process
Calculating and merging
Delete data points over picture (optional) --> Color set to white (>=254 in 8bit) will be removed
EBSD coordinates
Data coordinates e.g. CLSM
Load areas for data removing
Delete data
Save merged data
Ausgabe:

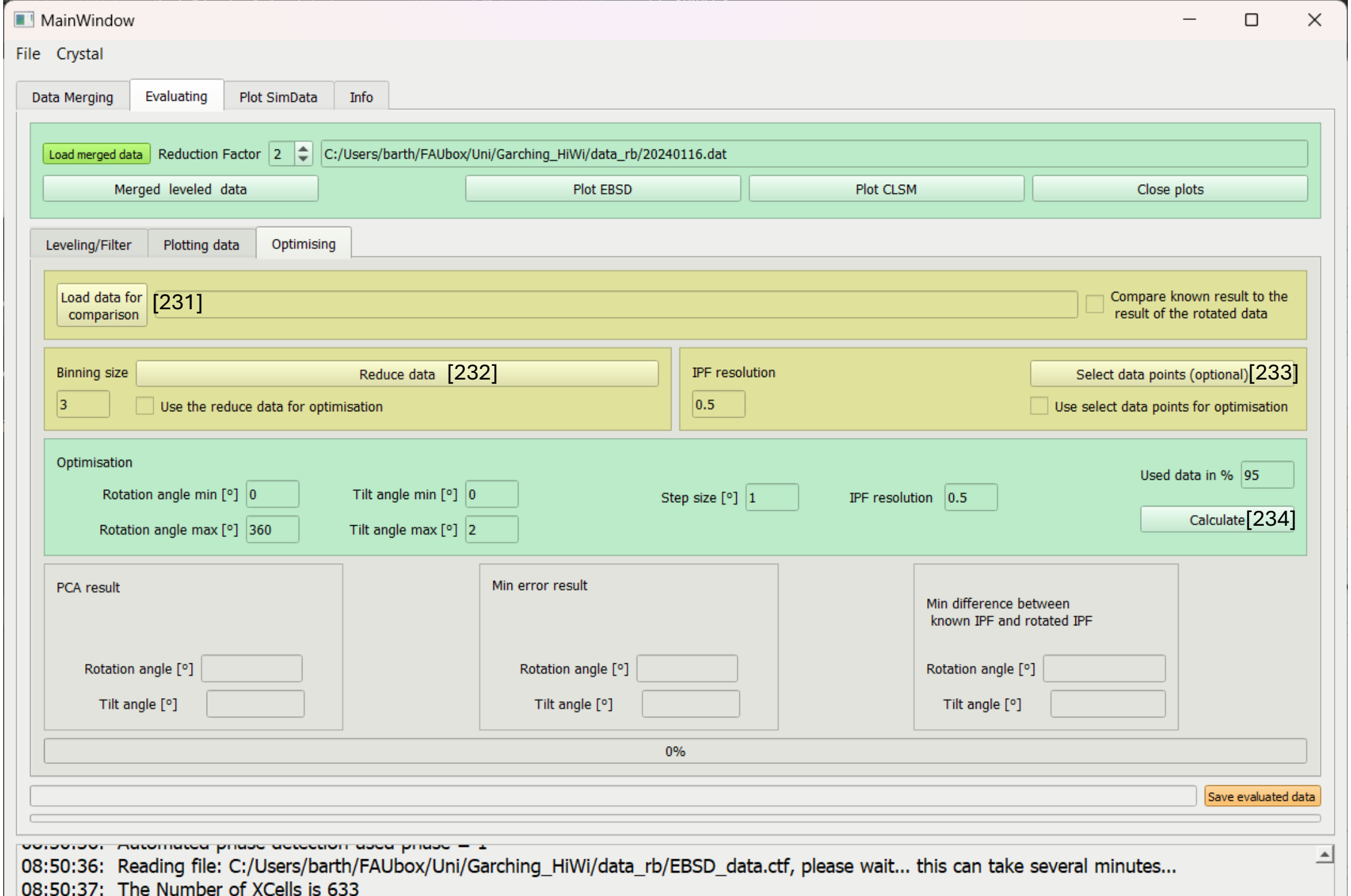

MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
Load_EBSD
Phase of interest (if diff. from default)
refer to EBSD 'CTF' file
View EBSD data
CLSM_Merge
AFM_Merge
Image_Merge
File_AFM_1 (experiment)
[121]
Rotation
0°
Mirror
Leveling the data
File_AFM_2 (optional)
[122]
Rotation
0°
Mirror
Substract: AFM1 - AFM2
[123]
View AFM data
[124]
Height Trace
Height Retrace
Amplitude Retrace
Phase Retrace
ZSensor Retrace
Load points for merging process
Select points for merging process
Calculating and merging
Delete data points over picture (optional) --> Color set to white (>=254 in 8bit) will be removed
EBSD coordinates
Data coordinates e.g. CLSM
Load areas for data removing
Delete data
Save merged data
Ausgabe:

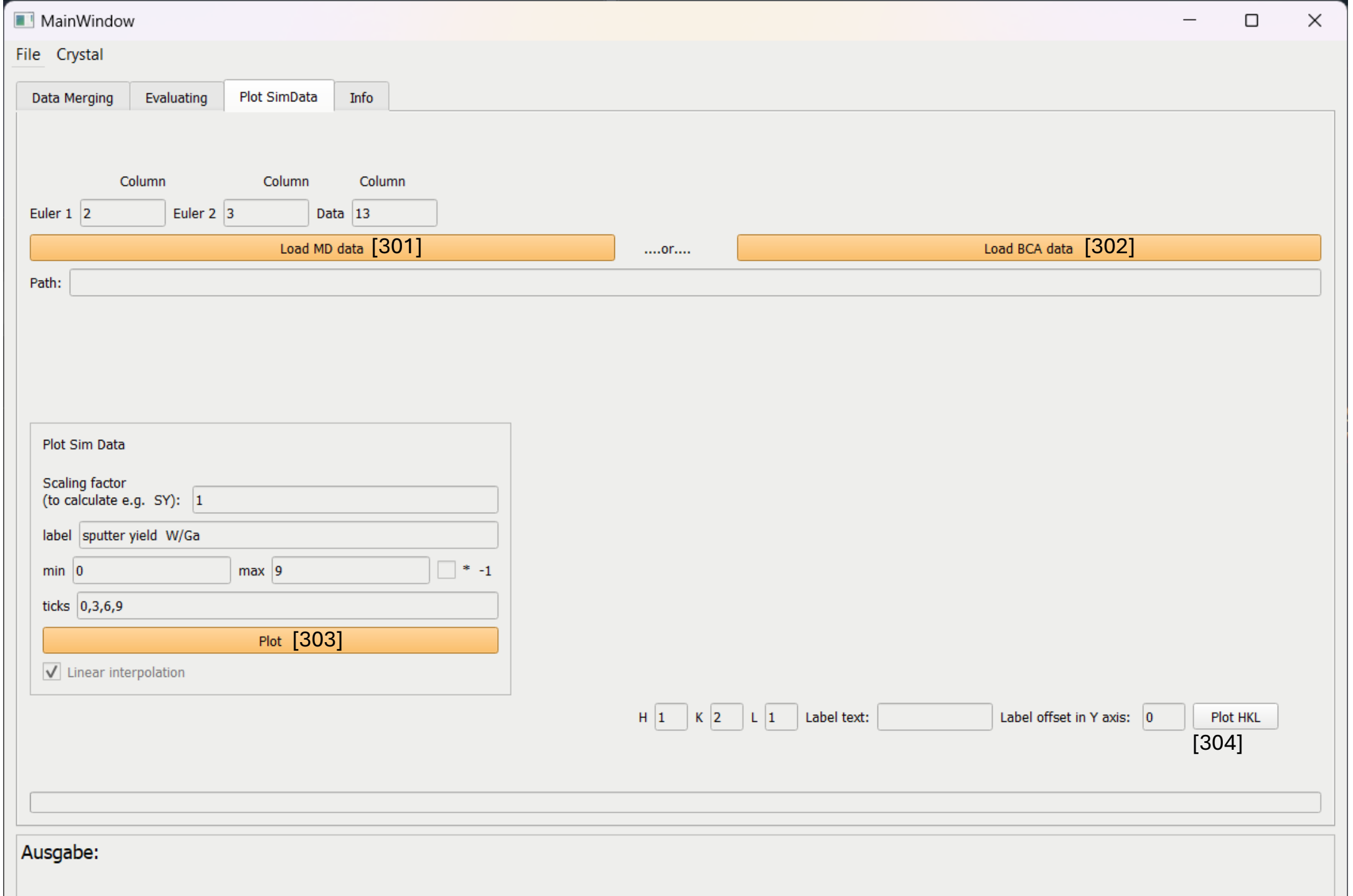

MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
Load_EBSD
Phase of interest (if diff. from default)
refer to EBSD 'CTF' file
View EBSD data
CLSM_Merge
AFM_Merge
Image_Merge
File contrast data (experiment)
[131]
Rotation
0°
Mirror
View Pic data
[132]
Load points for merging process
Select points for merging process
Calculating and merging
Delete data points over picture (optional) --> Color set to white (>=254 in 8bit) will be removed
EBSD coordinates
Data coordinates e.g. CLSM
Load areas for data removing
Delete data
Save merged data
Ausgabe:


MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
[201]
Load merged data
Reduction Factor
1
Merged leveled data [202]
Plot EBSD [203]
Plot CLSM [204]
Close plots [205]
Leveling/Filter
Plotting data
Optimising
Sputter/Erosion
Reference level
Mean erosion ..or..
mean data value
0
Leveling
Oxidation
Height oxide layer
2
/µm
<100> grains
mean oxide height
Compensate
grow in depth
0.42
Leveling
Filter size Noise
1
activate filter noise
Filter size GB
1
activate filter GB
Apply filter
Save evaluated data
[206]
Ausgabe:


MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
Load merged data
Reduction Factor
1
Merged leveled data
Plot EBSD
Plot CLSM
Close plots
Leveling/Filter
Plotting data
Optimising
Sputter/Erosion
Reference level
0
Mean erosion ..or..
mean data value
Leveling
[211]
Oxidation
Height oxide layer
2
/µm
<100> grains
mean oxide height
Compensate
grow in depth
0.42
Leveling
[212]
Filter size Noise
1
activate filter noise
Filter size GB
1
activate filter GB
Apply filter
[213]
Save evaluated data
Ausgabe:


MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
Load merged data
Reduction Factor
1
Merged leveled data
Plot EBSD
Plot CLSM
Close plots
Leveling/Filter
Plotting data
Optimising
Optimisation (optional)
Change to optimisation
[221]
Rotation angle
Tilt angle
[222]
Apply rotation matrix multiplication
IPF resolution (high number -> small pixel size):
2
Cut-off filter
5
Smoothing
[223]
Calculate IPF
Sputter yield
Atomic density
6.32E28
fluence
1.1E22
label
sputter yield W/Ga
min
0
max
9
ticks
0,3,6,9
Plot
[224]
Linear interpolation
1: Erosion depth (negative values, tick -1)
2: Oxide layer thickness
3 :Contrast data
label
erosion / µm
min
0
max
3
* -1
ticks
0,1,2,3
Plot
[225]
Linear interpolation
Standard deviation
label
SD / µm
min
0
max
0.3
ticks
0,0.1,0.2,0.3
Plot
[226]
Counts
label
number of measurements
min
1
max
10000
Plot
[227]
H
1
K
2
L
1
Label text:
Label offset in Y axis:
0
Plot HKL
[228]
Save evaluated data
Ausgabe:


MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
Load merged data
Reduction Factor
2
C:/Users/barth/FAUbox/Uni/Garching_HiWi/data_rb/20240116.dat
Merged leveled data
Plot EBSD
Plot CLSM
Close plots
Leveling/Filter
Plotting data
Optimising
Load data for comparison
[231]
Compare known result to the result of the rotated data
Binning size
Reduce data
[232]
3
Use the reduce data for optimisation
IPF resolution
Select data points (optional)
[233]
0.5
Use select data points for optimisation
Optimisation
Rotation angle min [°]
0
Tilt angle min [°]
0
Step size [°]
1
IPF resolution
0.5
Used data in %
95
Rotation angle max [°]
360
Tilt angle max [°]
2
Calculate
[234]
PCA result
Rotation angle [°]
Tilt angle [°]
Min error result
Rotation angle [°]
Tilt angle [°]
Min difference between known IPF and rotated IPF
Rotation angle [°]
Tilt angle [°]
0%
Save evaluated data
08:50:36: Reading file: C:/Users/barth/FAUbox/Uni/Garching_HiWi/data_rb/EBSD_data.ctf, please wait... this can take several minutes...
08:50:37: The Number of XCells is 633


MainWindow
File
Crystal
Data Merging
Evaluating
Plot SimData
Info
Column
Column
Column
Euler 1
2
Euler 2
3
Data
13
Load MD data [301]
....or....
Load BCA data [302]
Path:
Plot Sim Data
Scaling factor
(to calculate e.g. SY):
1
label
sputter yield W/Ga
min
0
max
9
* -1
ticks
0,3,6,9
Plot [303]
Linear interpolation
H
1
K
2
L
1
Label text:
Label offset in Y axis:
0
Plot HKL
[304]
Ausgabe: