



QtiSAS v. 2020-07-06 Release Information

QtiSAS

QtiSAS | Project Explorer:

- ... behavior boosted;
- ... improved presentation of widgets, specially in “Maximized” regime...;
- ... [1] default mode of “View Windows” option is changed to “None” from “Windows in Active Folder”;

QtiSAS | Color Maps:

- ... functionality in Spectrogram Plots is strongly improved;
- ... [2] Log&Lin buttons change color scale and Color Bar;
- ... [3] 7 default color maps integrated;
- ... [4] “Update” button implemented to Color Map Editor (re-read matrix limits);

QtiSAS | Graph | Automatic Layout:

- ... button logic is modified;
- ... [5] Spectrogram's Geometry is proportionally maximized correspondingly to matrix dimension;
- ... [6] 2D plots are proportionally maximized if “Keep aspect ratio” is selected;

QtiSAS | Log and Lin buttons:

- ... [7] also in Graph Toolbars;
- ... [2] work now also for Spectrograms (Color Fill);

QtiSAS | Graph | Tex Equation Editor:

- ... changed server for online-compilation;
- ... [8] new server: latex.codecogs.com;
- ... size of png-images of Equations could be controlled by “\dpi{150}” command;

QtiSAS | Graph | Add/Remove Curve interface:

- ... [9] added check-box “+yErr”;
- ... to add also Y-Error-bars with corresponding Dataset;
- ... by default: Cap Width of error bars is 0;
- ... by default: Line Width is defined by defined line width;

[10] QtiSAS | Graph | Add Error Bars interface: improved behavior of “Existing Column”:

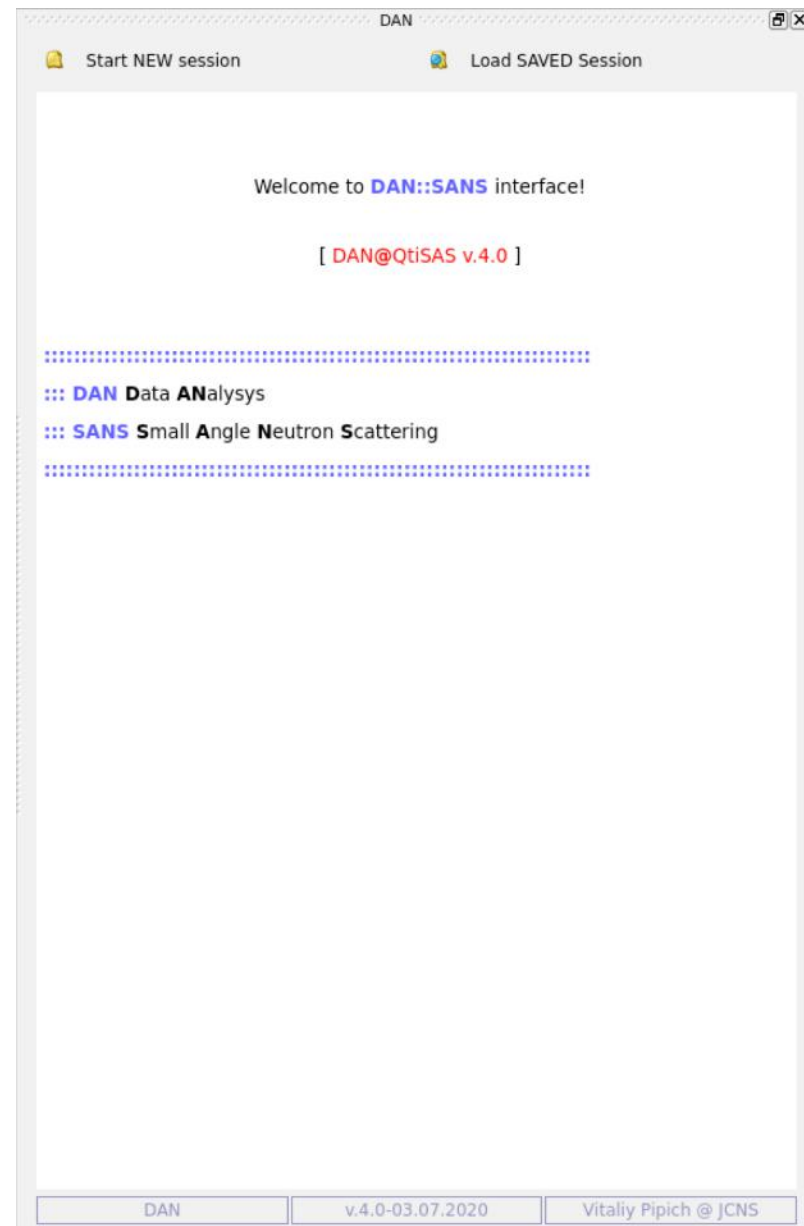


QtiSAS v. 2020-07-06
Release Information

DAN v. 4.0:

- ... interface and logic are strongly optimized;
- ... Mask Tools moved from DANP to DAN;
- ... Merge interface improved;

DAN





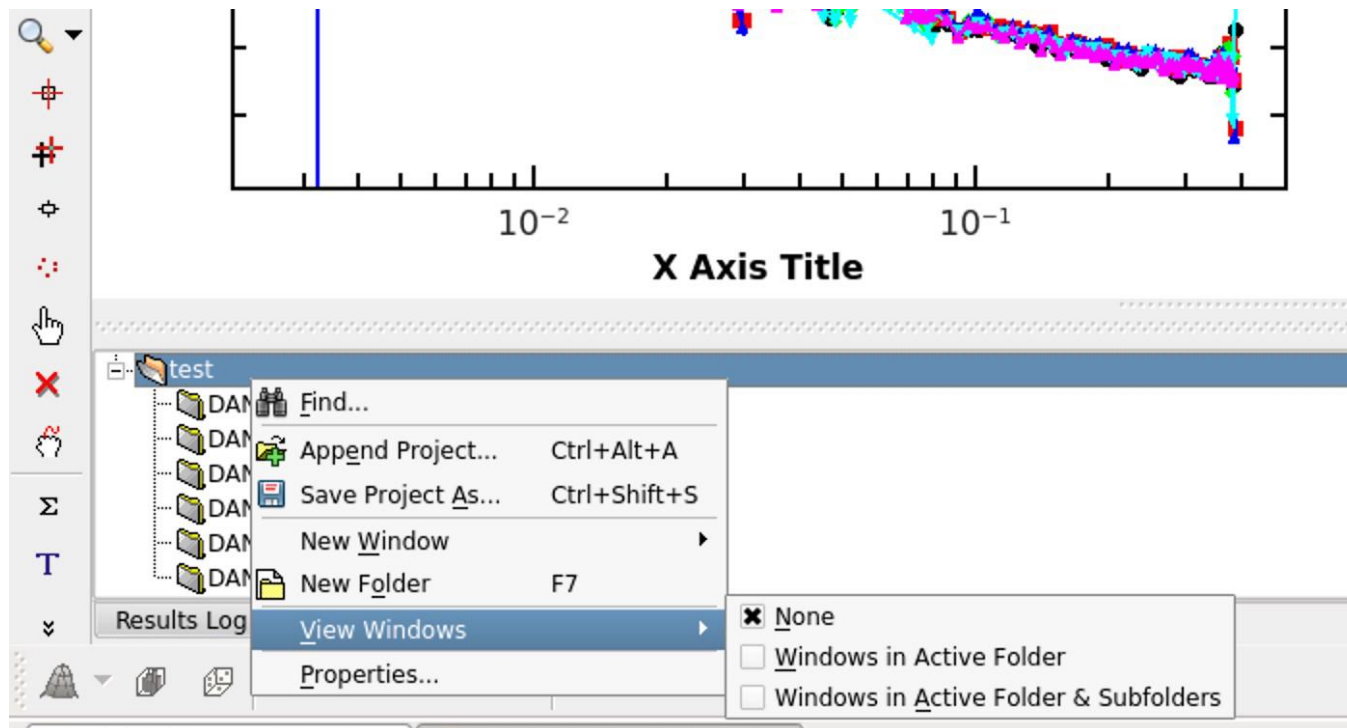
QtiSAS v. 2020-06-07
Release Information

FIT 4.1:
... interface is optimized;

FIT

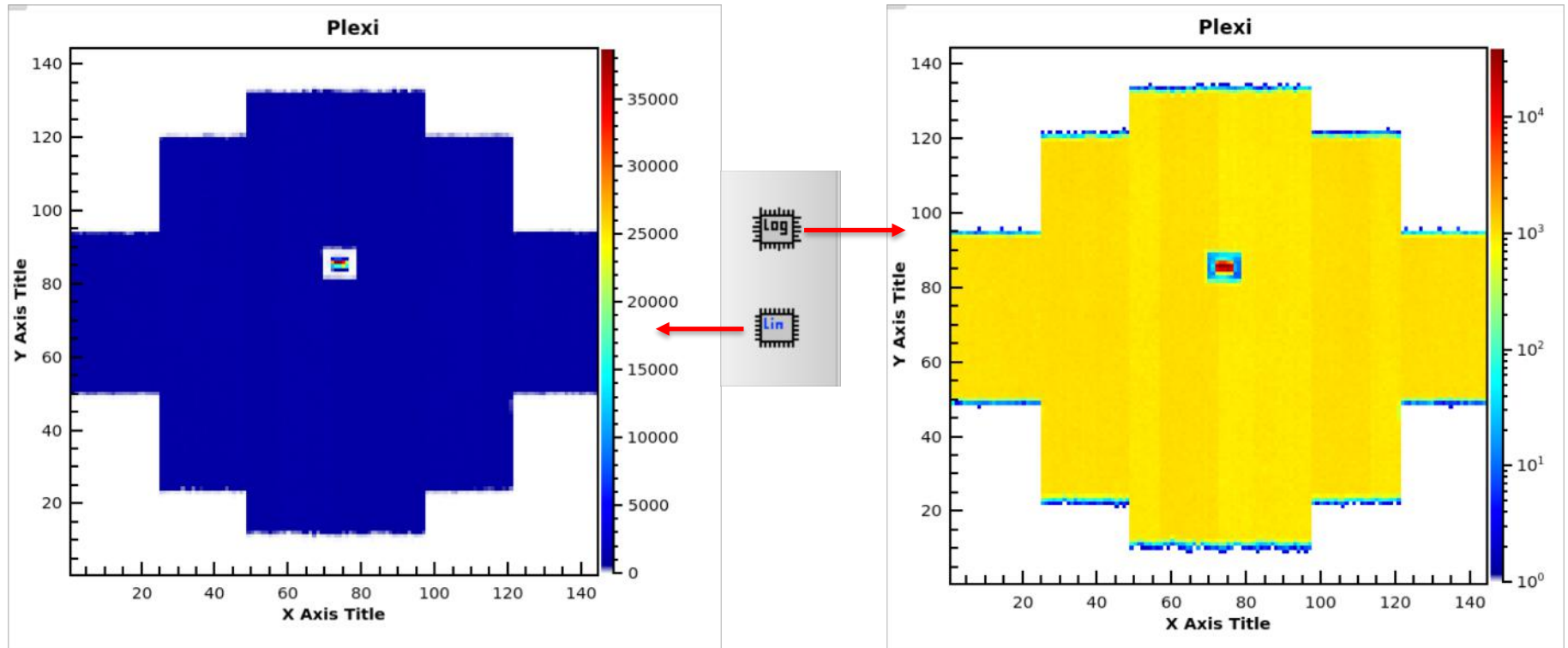
QtiSAS | Project Explorer:

... [1] default mode of “View Windows” option is changed to “None” from “Windows in Active Folder”;



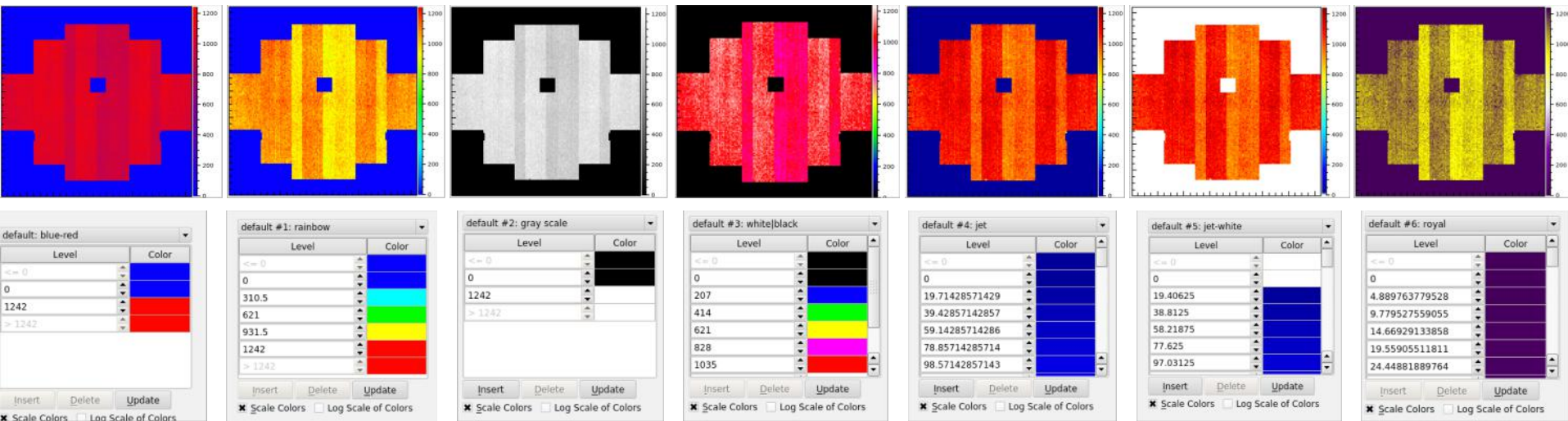
QtiSAS | Color Maps:

... [2] Log & Lin buttons change color scale and Color Bar;



QtISAS | Color Maps:

... [3] 7 default color maps integrated;



#0: blue-red

#1: rainbow

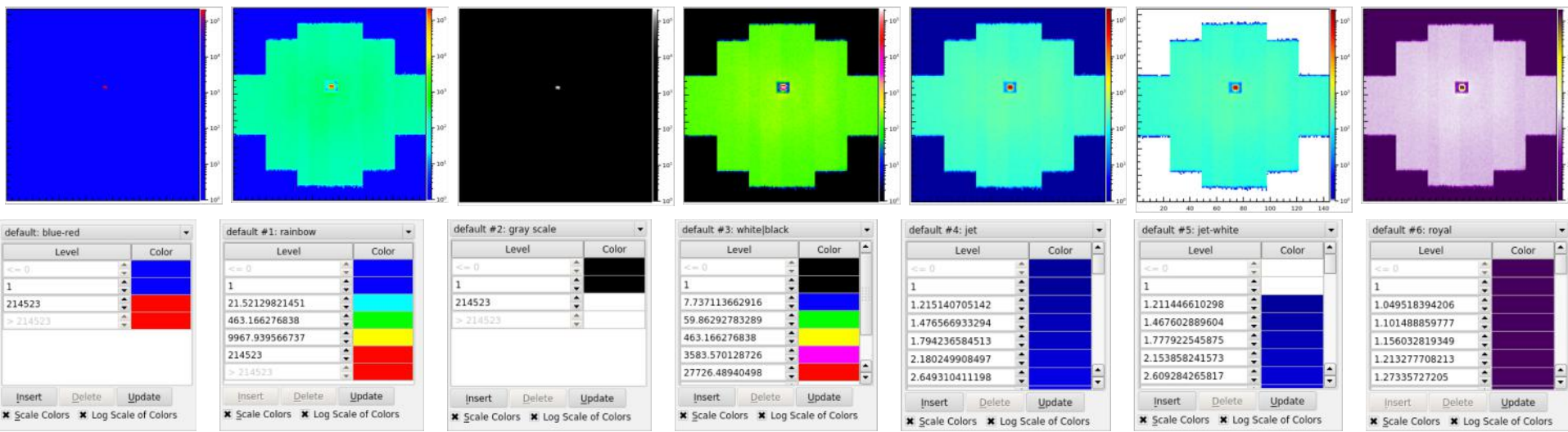
#2: gray scale

#3: white | black

#4: jet

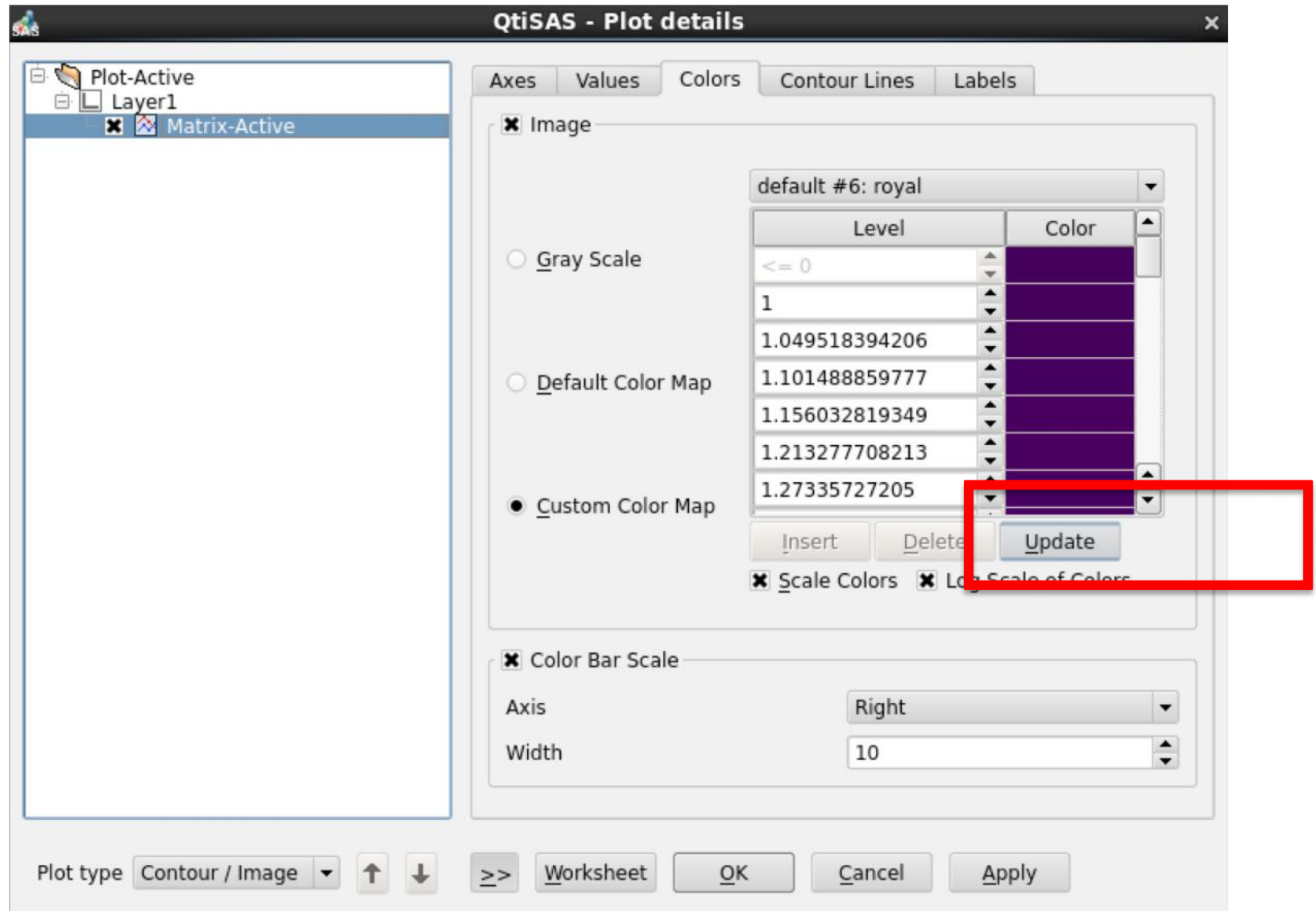
#5: jet-white

#6: royal



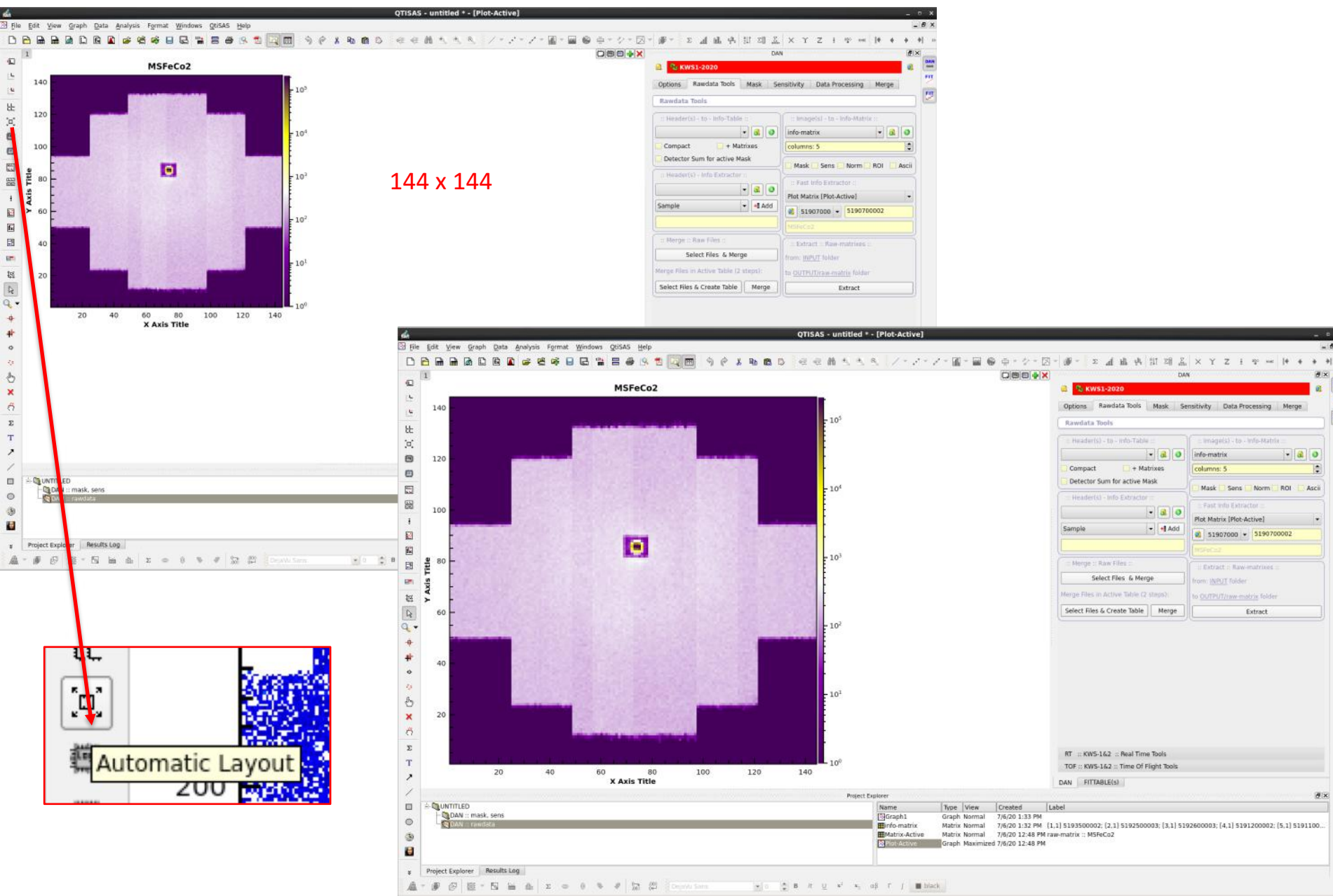
QtiSAS | Color Maps:

... [4] "Update" button implemented to Color Map Editor (re-read matrix limits);

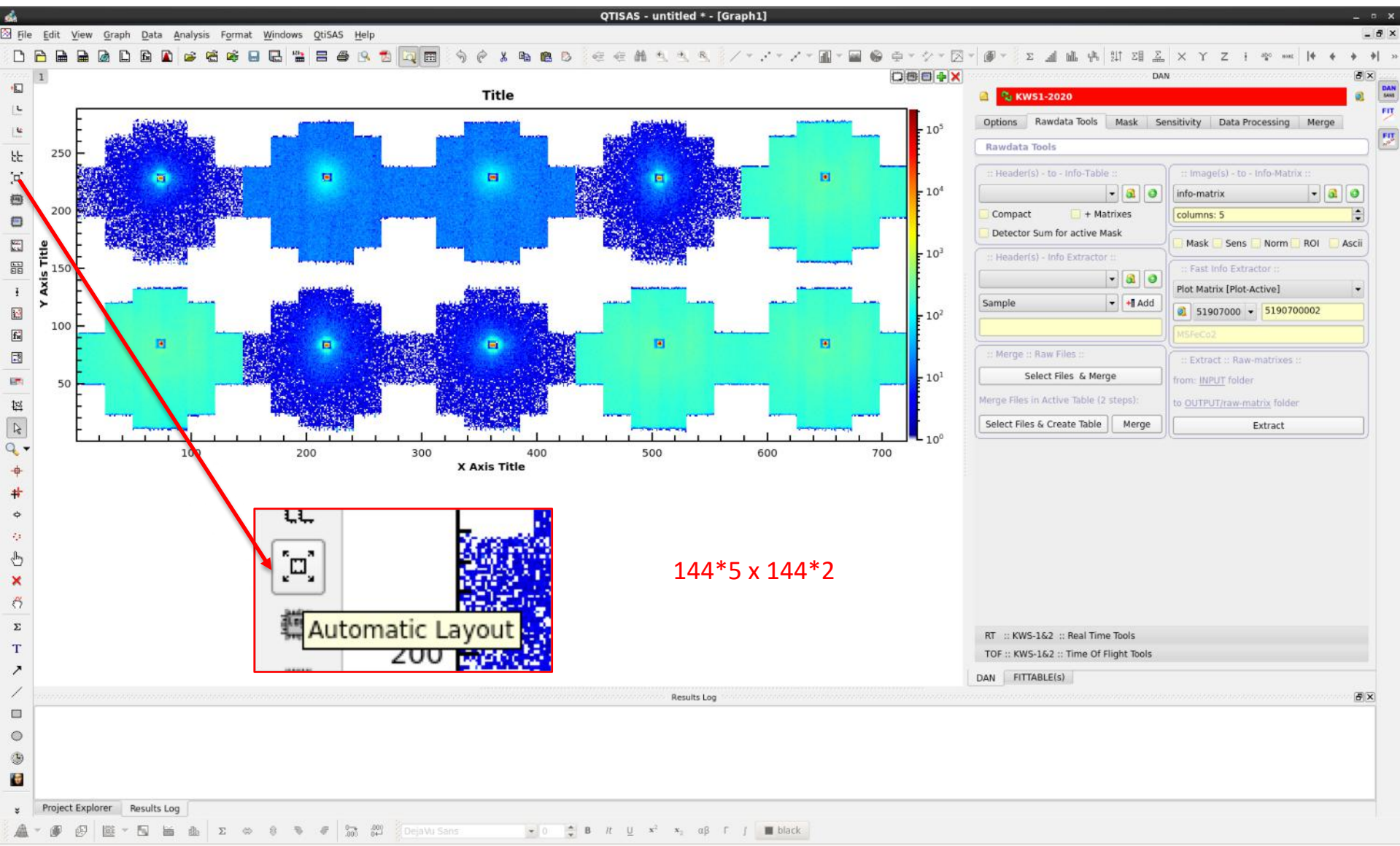


QtISAS | Graph | Automatic Layout:

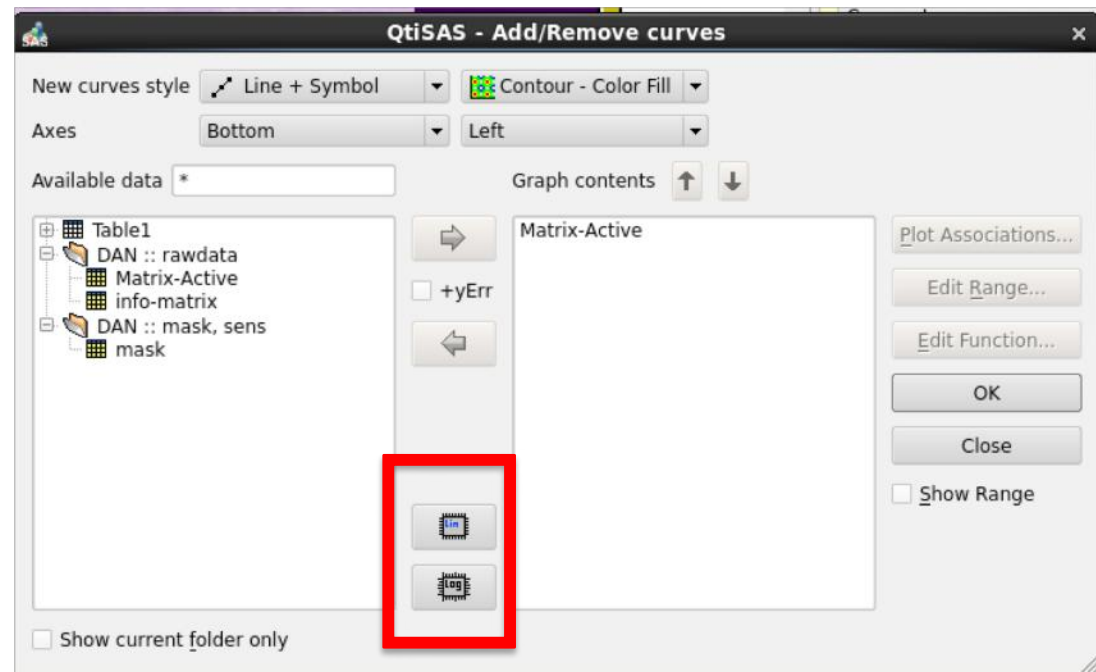
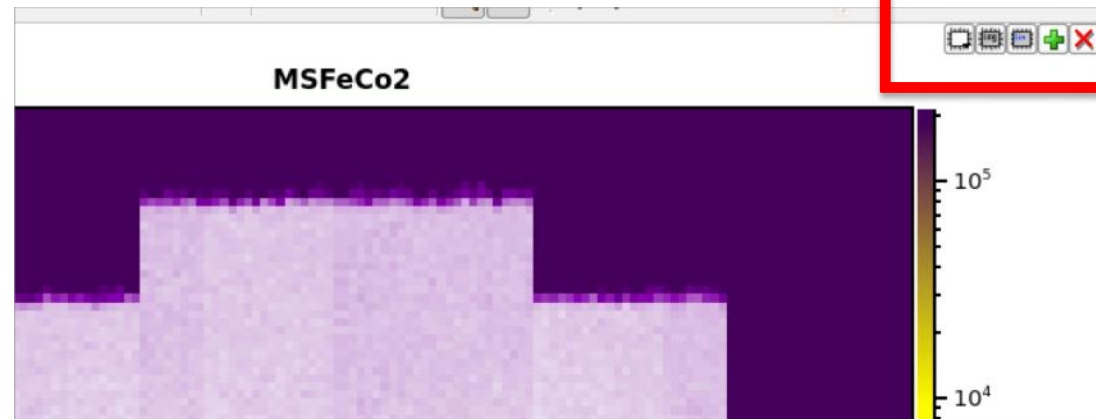
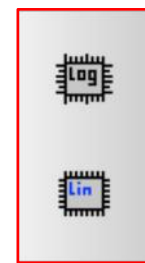
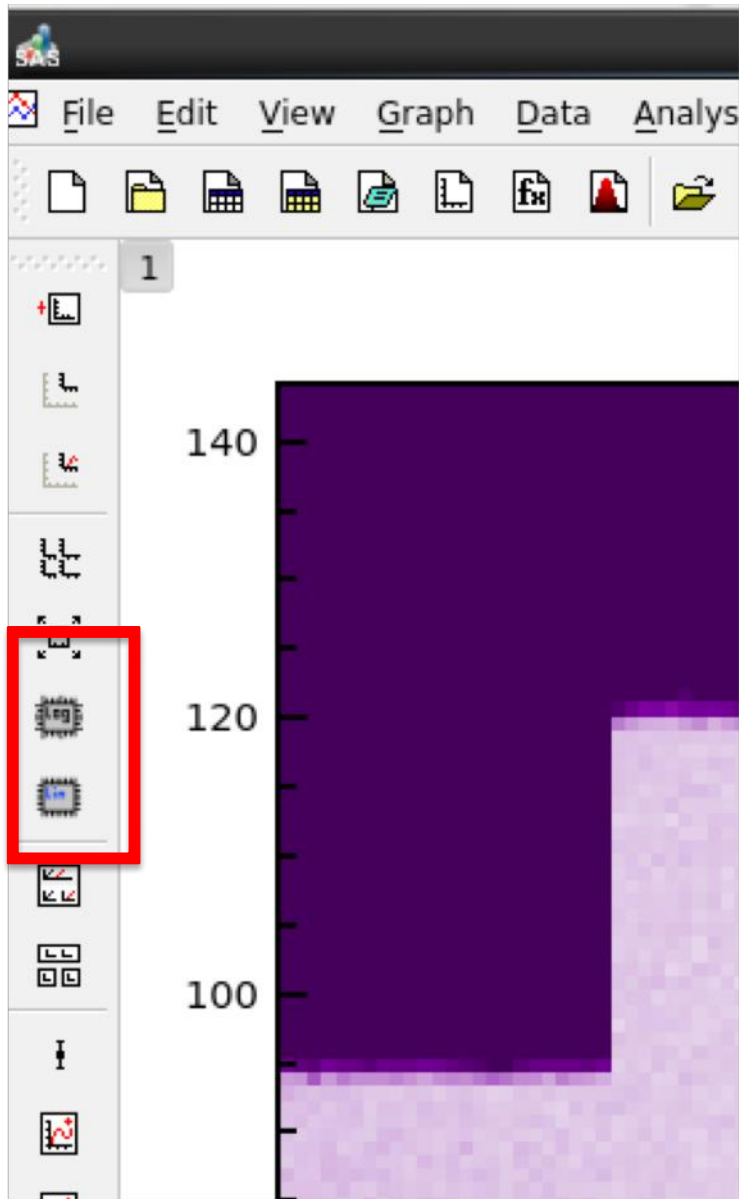
... [5] Spectrogram's Geometry is proportionally maximized correspondingly to matrix dimension;



QtISAS | Graph | Automatic Layout:
... [5] Spectrogram's Geometry is proportionally maximized correspondingly to matrix dimension;



QtISAS | Log and Lin buttons:
... [7] also in Graph Toolbars;



QtISAS | Graph | Tex Equation Editor:

- ... changed server for online-compilation;
- ... [8] new server: latex.codecogs.com;
- ... size of png-images of Equations could be controlled by “\dpi{150}” command;

The image displays the QtISAS software interface. On the left, a graph window titled "Title" shows a coordinate system with a Y-axis labeled "Y Axis Title". A LaTeX equation is plotted on the graph: $\sqrt{a_b} \frac{as}{is} \Psi \Omega$. The equation is rendered with green text for $\sqrt{a_b}$ and blue text for $\frac{as}{is} \Psi \Omega$. Below the graph, a menu is open, showing various options. The "Add Equation" option is highlighted, with a keyboard shortcut of Alt+Q. To the right, the "QtISAS - Tex Equation Editor" dialog box is open. It has tabs for "Text", "Frame", and "Geometry". The "Text" tab is active, showing the LaTeX code: `\dpi{450}\color{green}\sqrt{a_b}\color{blue}\frac{as}{is}\Psi\Omega`. Below the code, there is a "LaTeX Compiler" dropdown menu set to "CodeCogs (https://latex.codecogs.com/)", which is highlighted with a red rectangle. A "Preview" section shows the rendered equation. At the bottom of the dialog, there are "Clear", "Apply", and "Close" buttons.

Menu options:

- Add
- Analyze
- Data
- Palette
- Copy
- Export
- Print
- Properties...
- Remove Layer (Alt+R)
- Add/Remove Curve... (Alt+C)
- Add Function... (Ctrl+Alt+F)
- Add Error Bars... (Ctrl+B)
- New Legend (Ctrl+L)
- Add Equation (Alt+Q)
- Add Text (Shift+T)
- Draw Arrow (Ctrl+Alt+A)
- Draw Line (Ctrl+Alt+L)
- Add Rectangle (Ctrl+Alt+R)
- Add Ellipse (Ctrl+Alt+E)
- Add Time Stamp (Ctrl+Alt+T)
- Add Image (Alt+I)
- Add Layer (Alt+L)

QtISAS - Tex Equation Editor

Text Frame Geometry

`\dpi{450}\color{green}\sqrt{a_b}\color{blue}\frac{as}{is}\Psi\Omega`

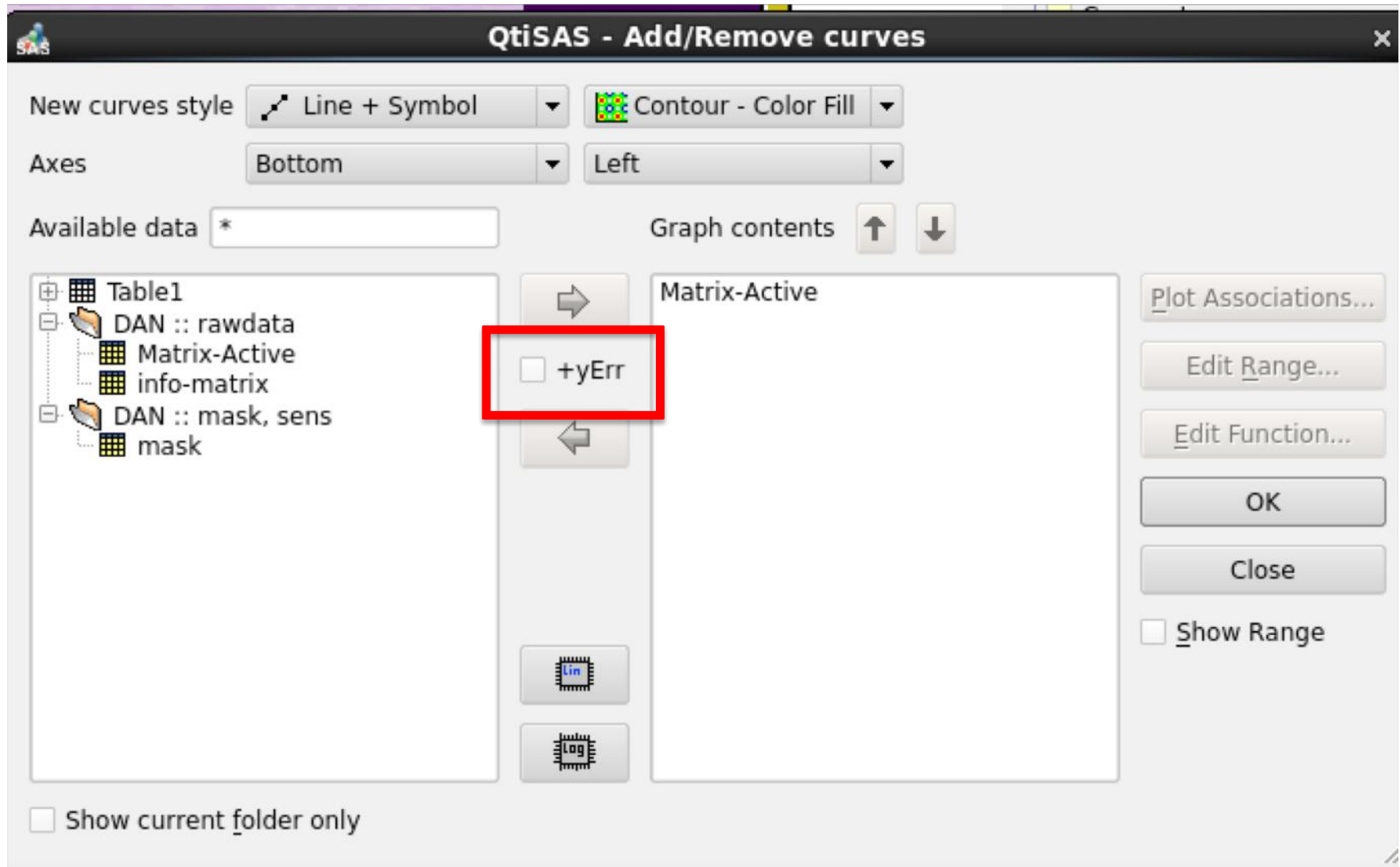
LaTeX Compiler: CodeCogs (https://latex.codecogs.com/)

Preview: $\sqrt{a_b} \frac{as}{is} \Psi \Omega$

Clear Apply Close

QtiSAS | Graph | Add/Remove Curve interface:

- ... [9] added check-box “+yErr”;
- ... to add also Y-Error-bars with corresponding Dataset;
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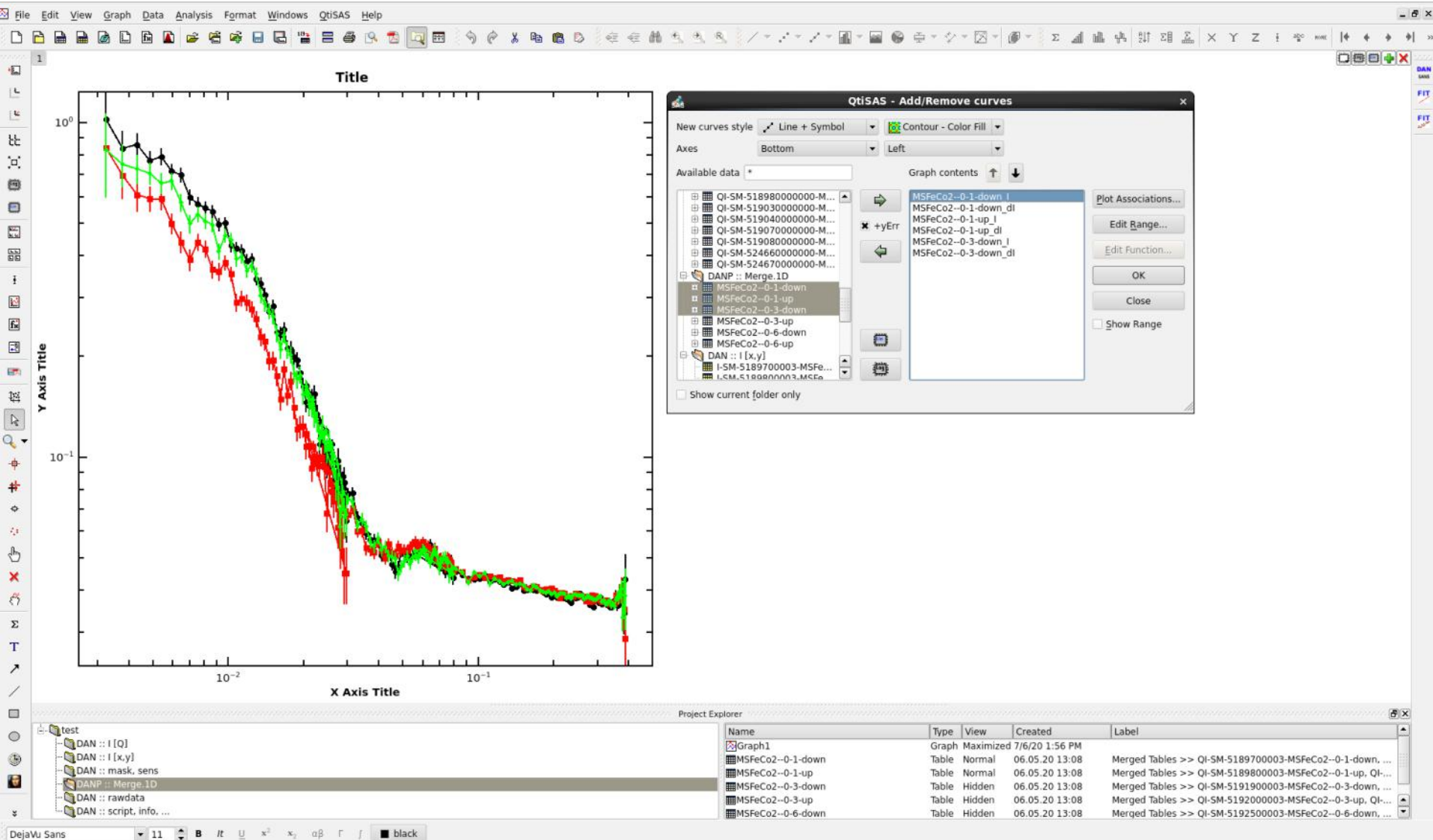
QtiSAS | Graph | Add/Remove Curve interface:

... added check-box “+yErr”;

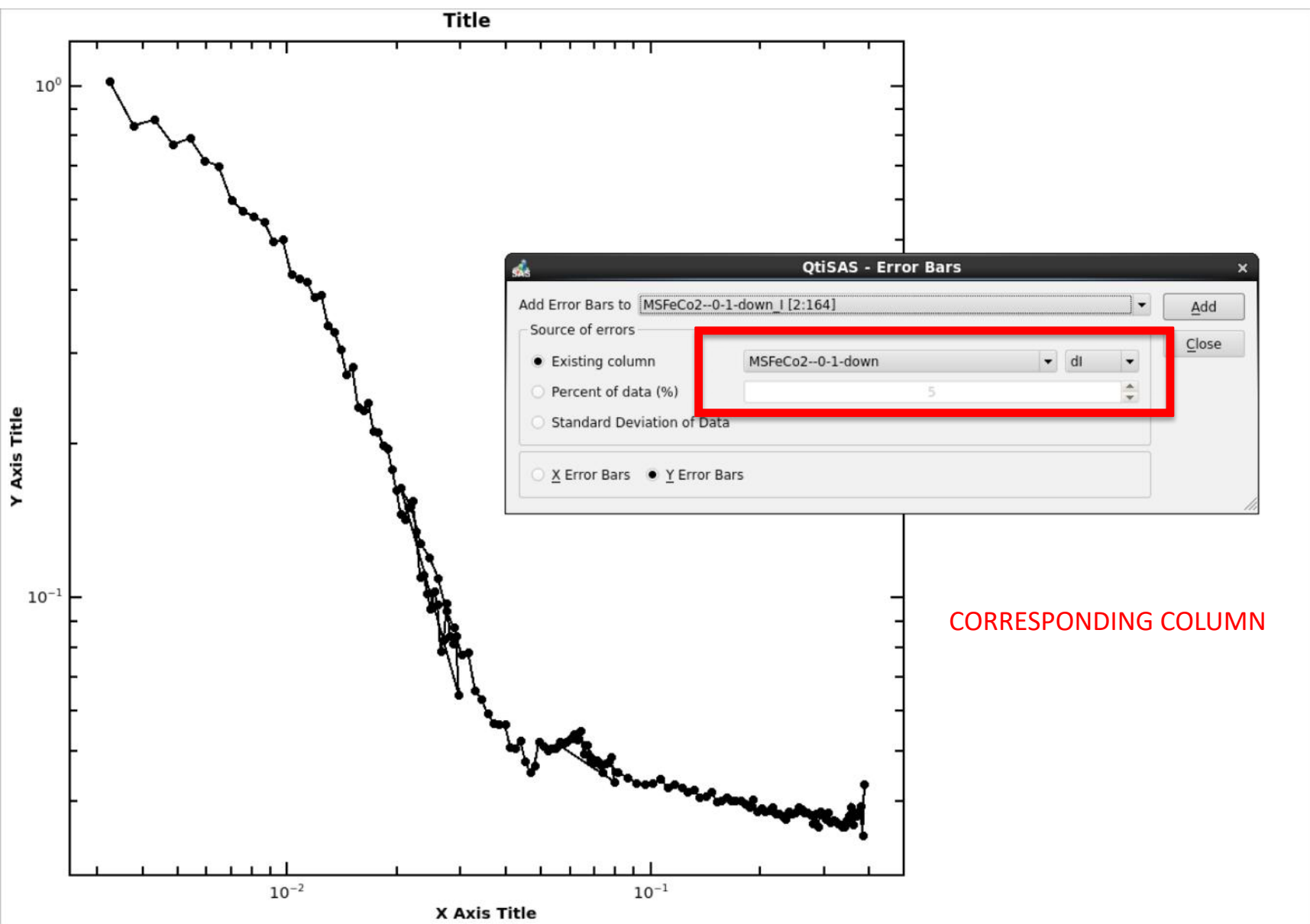
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[10] QtISAS | Graph | Add Error Bars interface: improved behavior of “Existing Column”:



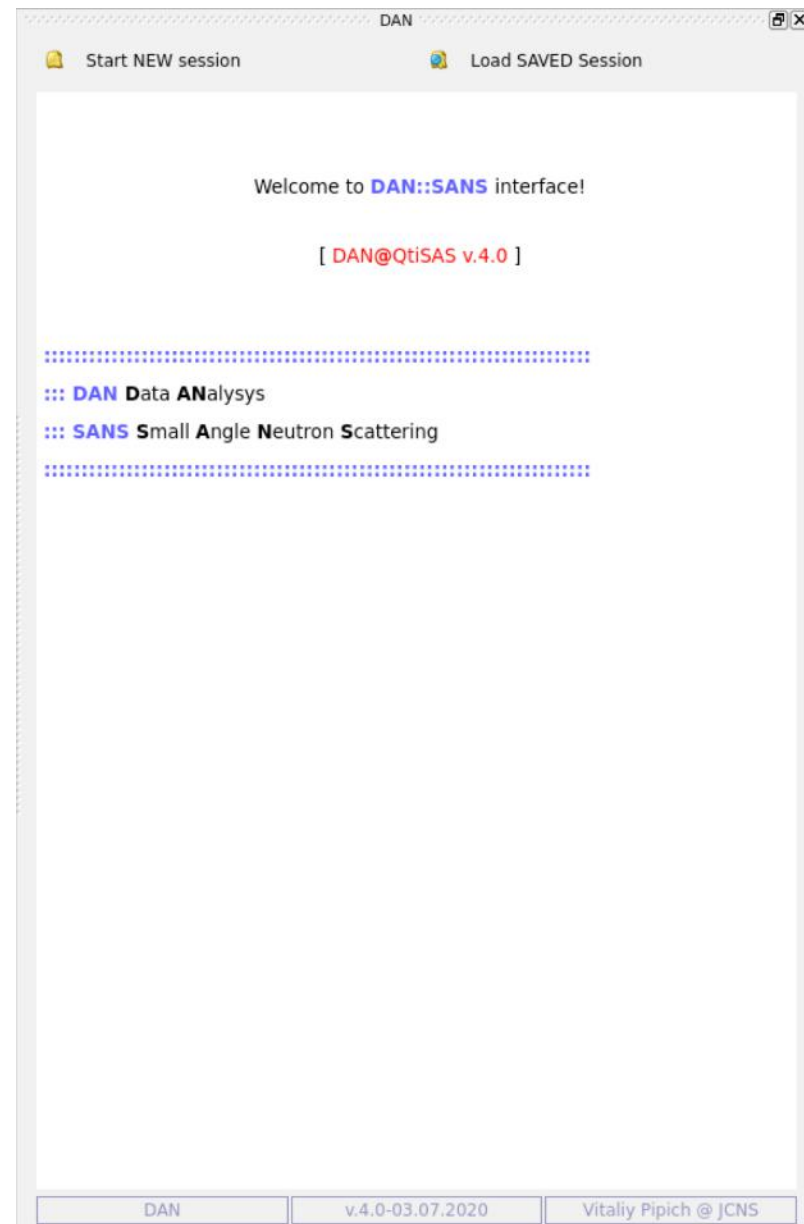


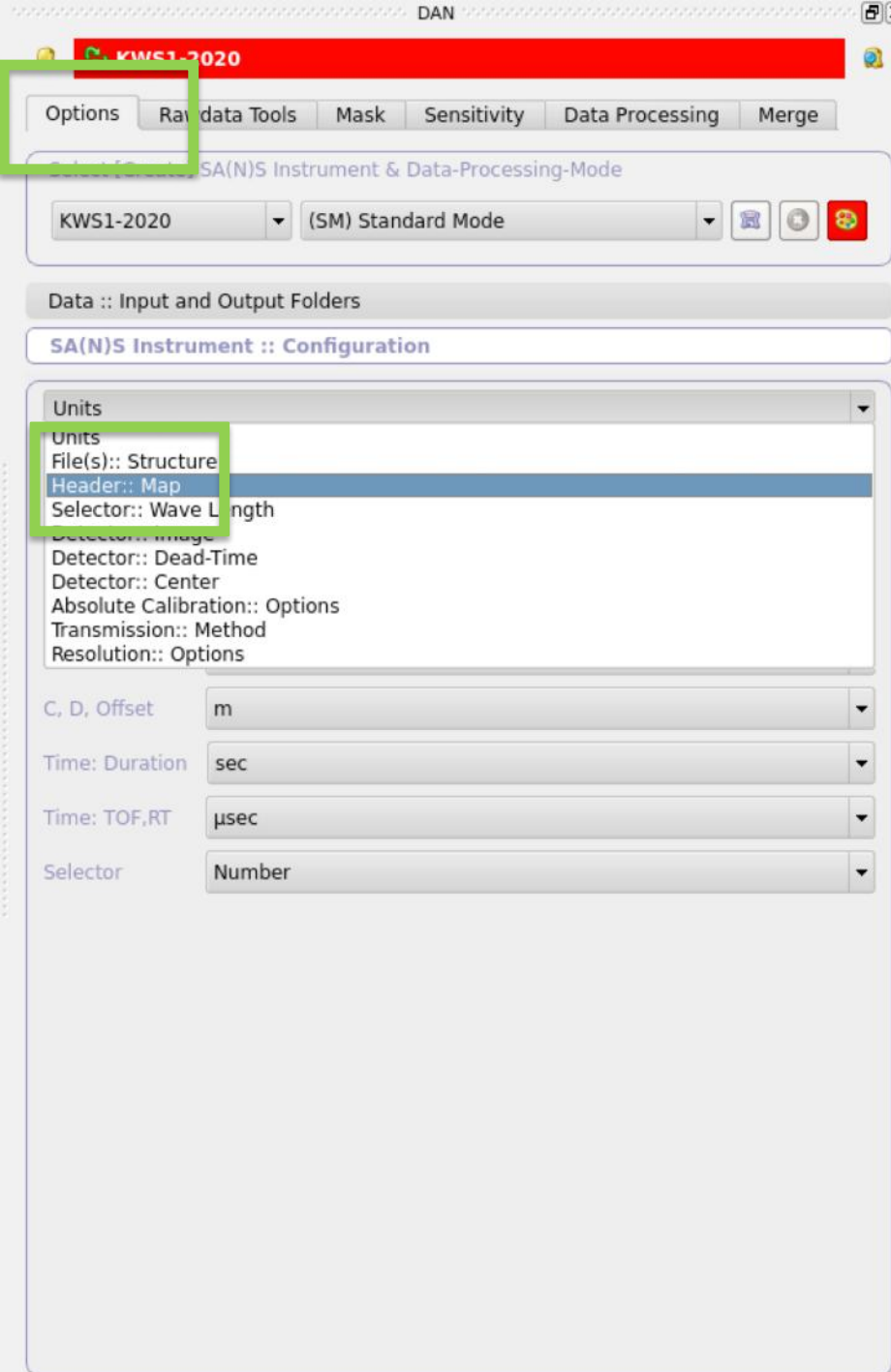
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DAN v. 4.0:

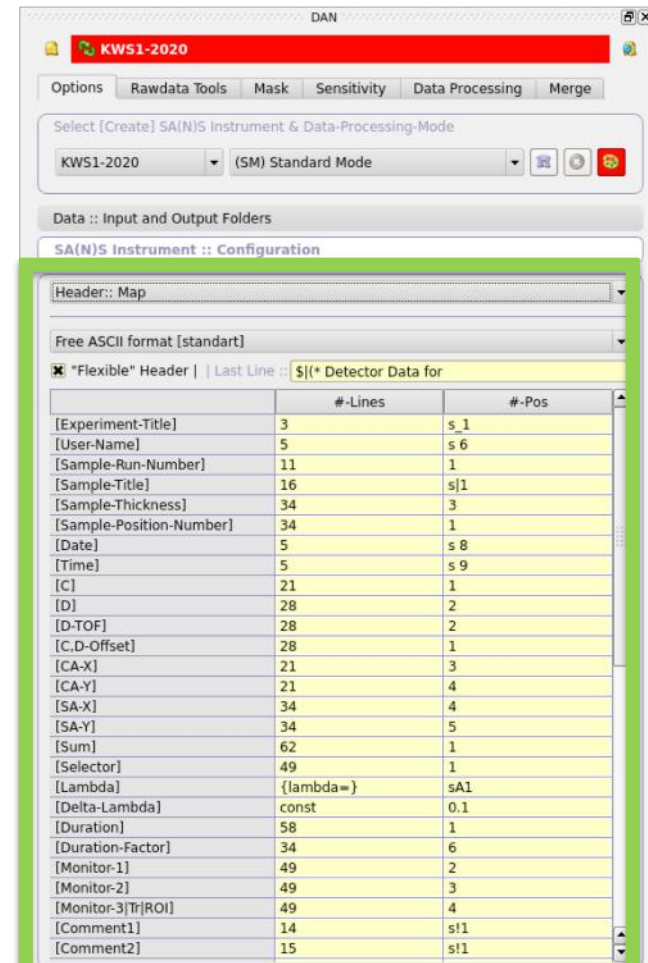
- ... interface and logic are strongly optimized;
- ... Mask Tools moved from DANP to DAN;
- ... Merge interface improved;

DAN





New structure of Instrument Configuration Options



DAN

KWS1-2020

Options Rawdata Tools Mask Sensitivity Data Processing Merge

Rawdata Tools

:: Header(s) - to - Info-Table ::

Compact + Matrixes

Detector Sum for active Mask

:: Header(s) - Info Extractor ::

Sample Add

:: Merge :: Raw Files ::

Select Files & Merge

Merge Files in Active Table (2 steps):

Select Files & Create Table Merge

:: Image(s) - to - Info-Matrix ::

columns: 3

Mask Sens Norm ROI Ascii

:: Fast Info Extractor ::

Plot Matrix [Plot-Active]

:: Extract :: Raw-matrixes ::

from: INPUT folder

to OUTPUT/raw-matrix folder

Extract

RT :: KWS-1&2 :: Real Time Tools

TOF :: KWS-1&2 :: Time Of Flight Tools

Rawdata Tools: rearranged;

DAN

KWS1-2020

Options Rawdata Tools Mask Sensitivity Data Processing Merge

Rawdata Tools

RT :: KWS-1&2 :: Real Time Tools

RT :: Sum vs Number :: Read RT :: Add :: by Selection

RT :: Tools

RT :: Merge Files :: from Active Table Merge Files: first?

RT :: Merge Frames :: Linear 1

RT :: Merge Frames :: Progressive 1.000

RT :: Split Frames 1 1024

Ratio of Geometrical Progression applied in experiment: 1.000

Oscillatory RT / synchronization with sample environment yes?

RT :: All steps RT :: All Selected Steps :: Processing...

Prefix: Suffix: Delete files (rt1...rt2)

TOF :: KWS-1&2 :: Time Of Flight Tools

DAN

KWS1-2020

Options Rawdata Tools Mask Sensitivity Data Processing Merge

Rawdata Tools

RT :: KWS-1&2 :: Real Time Tools

TOF :: KWS-1&2 :: Time Of Flight Tools

TOF :: Sum vs Number :: Read TOF :: Merge Files

TOF :: RT :: Tools

TOF :: Shift Frames 3

TOF :: Collapse Wings 1

TOF :: Remove Frames 2

TOF :: Merge Frames 4

TOF :: Split Frames $\lambda=4.55$ $\Delta\lambda=0.14$ 1 1024

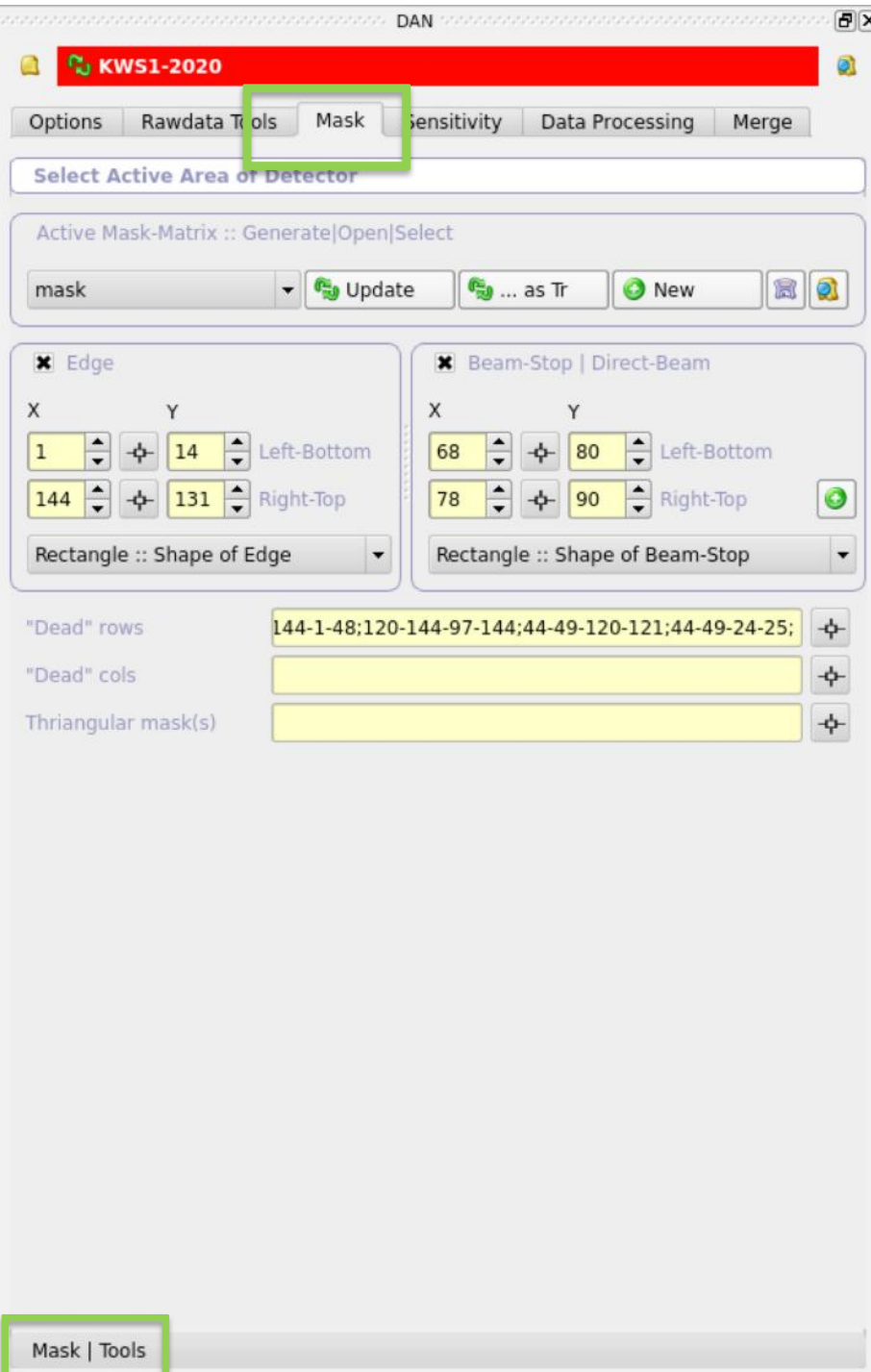
TOF :: All steps TOF :: All Selected Steps :: Processing...

delete tof1...tof4 files Remove '12345' from file number

Prefix: Suffix:

TOF :: Parameters :: Estimation

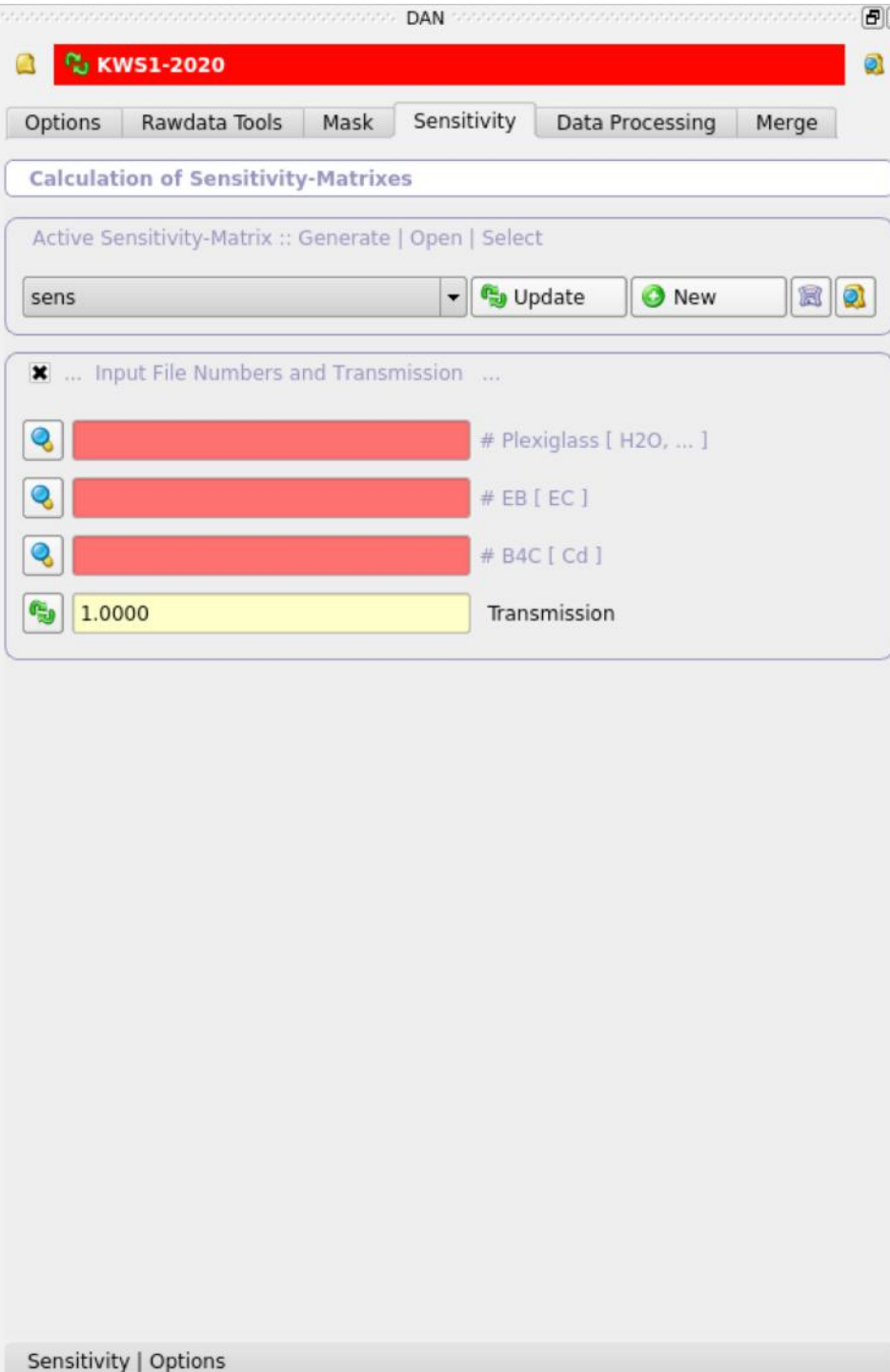
64 20% >>> TOF :: Calculate Parameters >>> 7



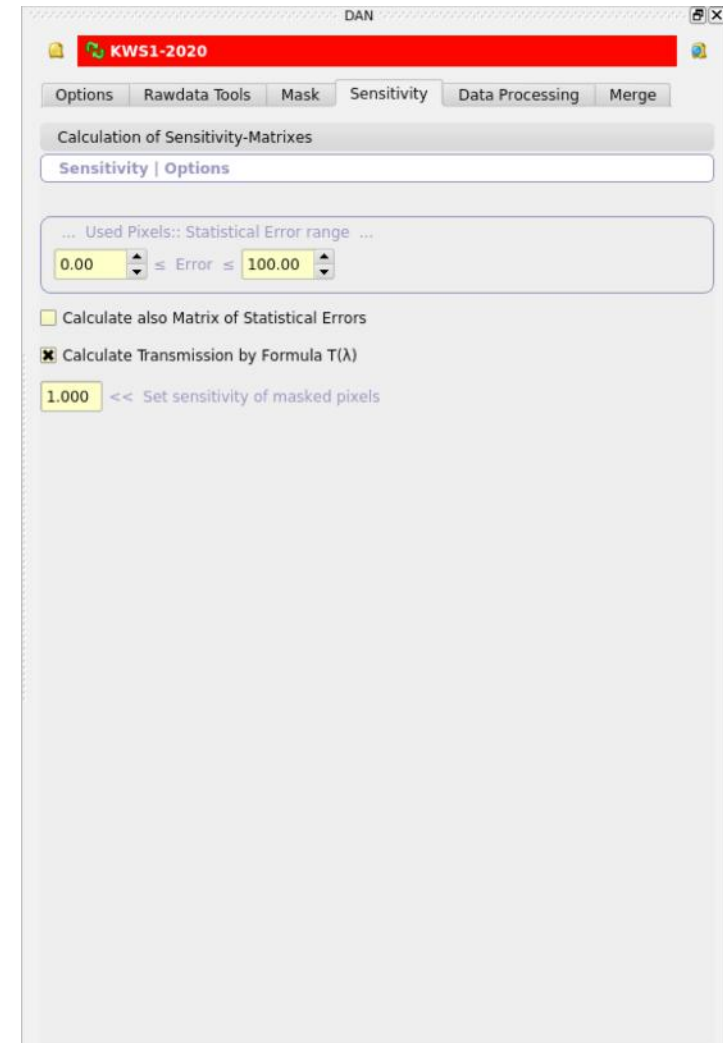
Mask Interface: rearranged a bit;

New: Mask Tools moved from QtiKWS | DANP



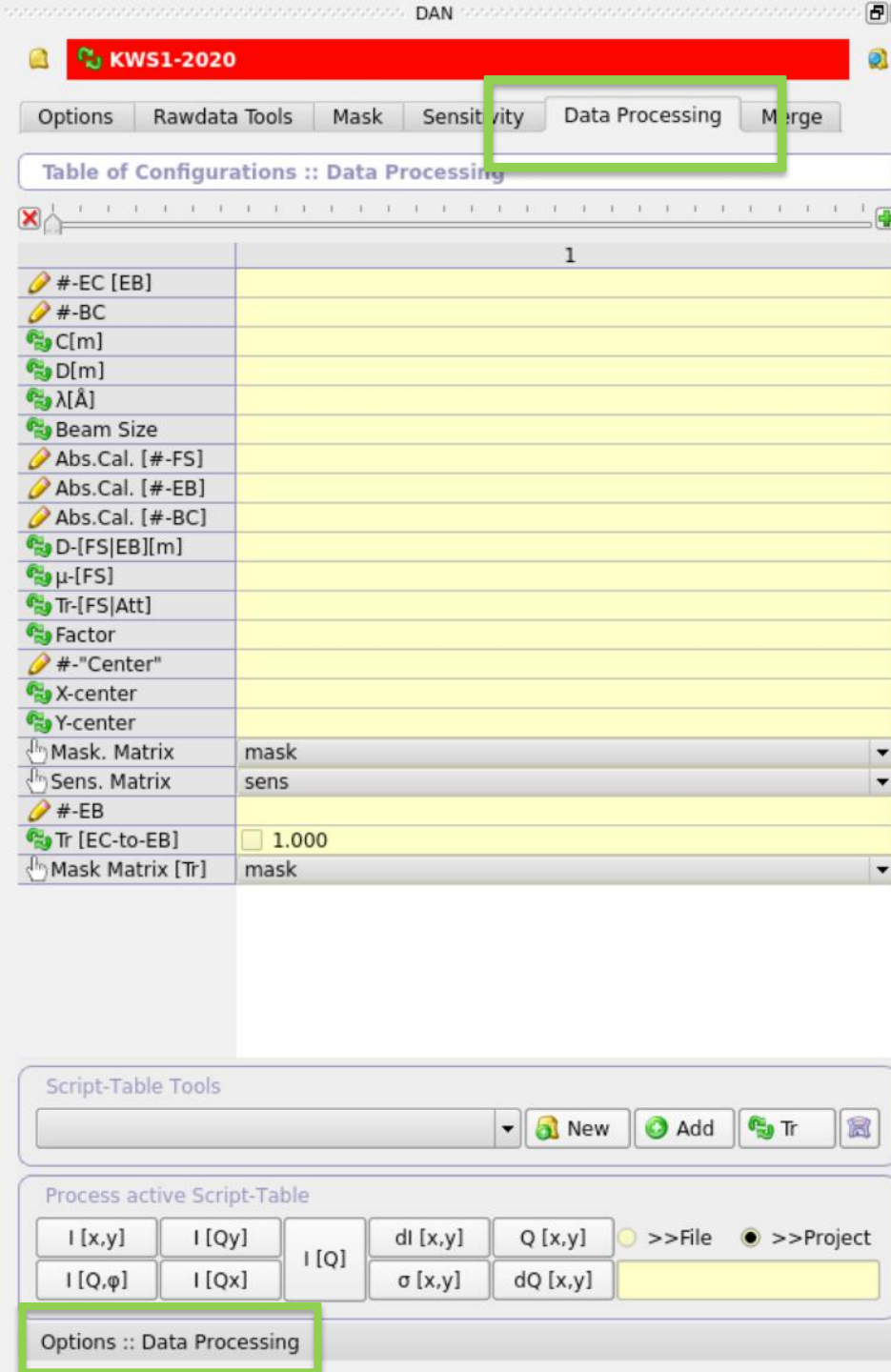


Sens Interface: rearranged a bit;



Data Processing Interface: rearranged a bit;

Data Processing Options: new view structure



DAN

KWS1-2020

Options Rawdata Tools Mask Sensitivity Data Processing **Merge**

Merging Options ::

0 Number of tables for merging

0 Number of table-sets for merging

30% Overlap control

* Filter (Wild Card)

☐ Indexing [Output]

☐ Smart merging

1 Reference column

Const normalization

0 (plus) left-side points

0 (plus) right-side points

☐ scale error-bars too

Read from active Table Save as a new Table

New Column

After Merging: remove first: 0 points remove last: 0 points

Merge [project] Merge [ascii]

DAN COMPILER FITTABLE(s)

Merge:

- new buttons Merge[project], Merge[ascii];
- new possibility to remove first/last points after merging