

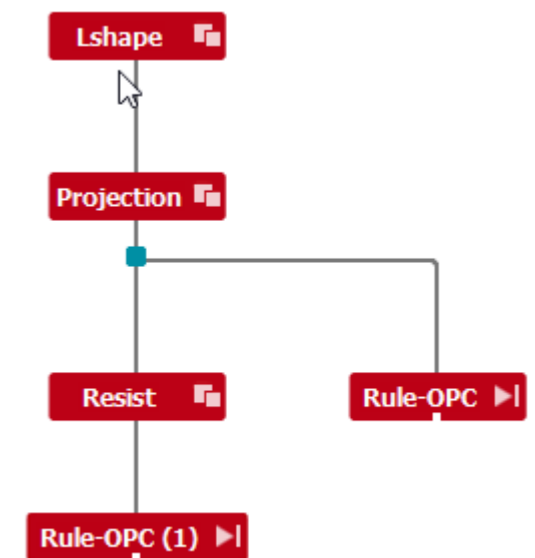
LAB

What's new v5.8

Rule OPC

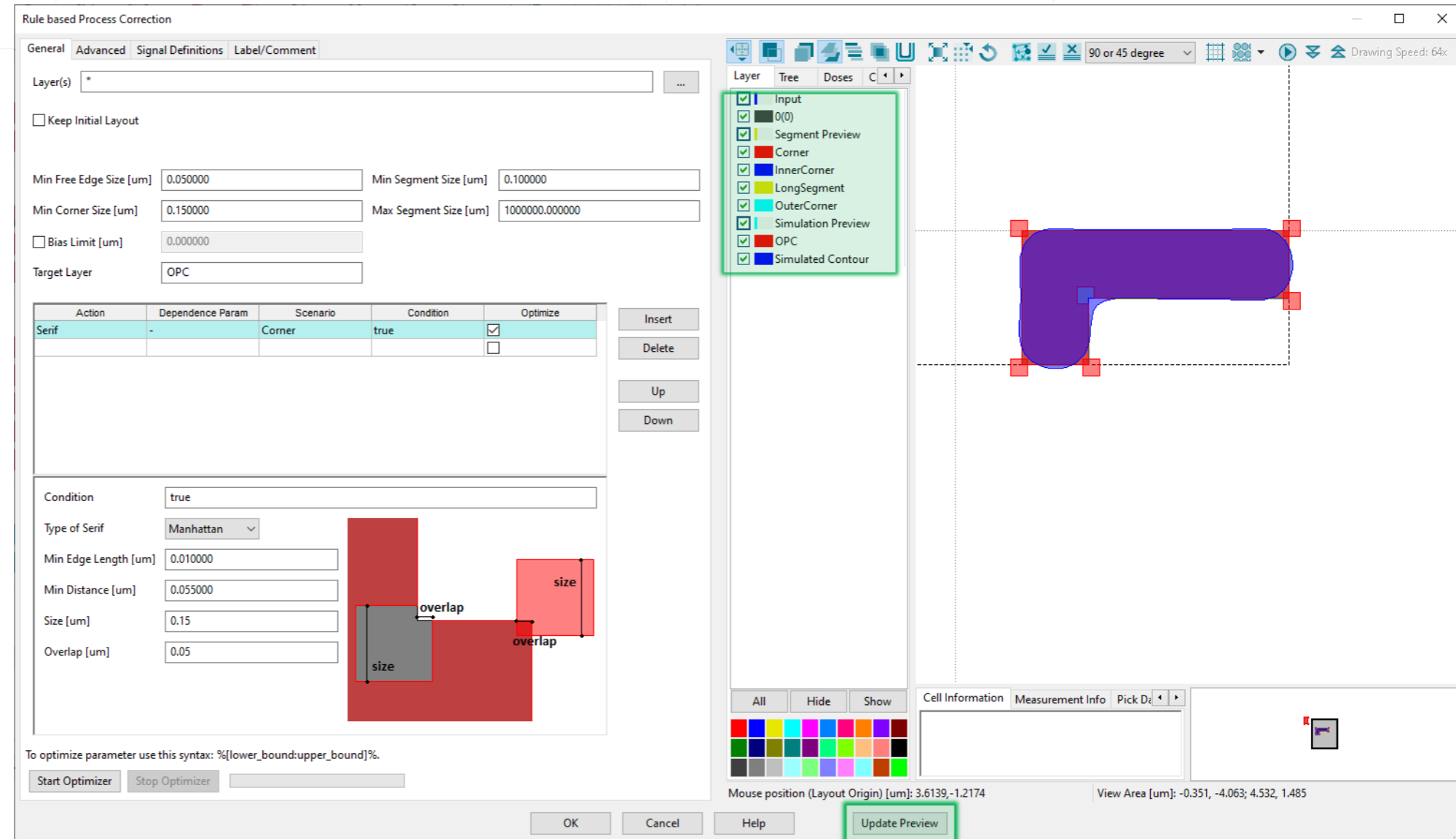
Defined rules can be previewed and optimized in Rule-OPC panel.

- Rule-OPC module has to be connected to an executed exposure module or resist module. The connection to an exposure or resist module is required to get all needed parameter for the simulation.
- The preview functionality allows the user to get a quick and easy impression of the impact by the defined rules on the used layout.
- The optimizer functionally goes one step further and optimizes defined parameters in rules, to allow an easier setup of rule sets.



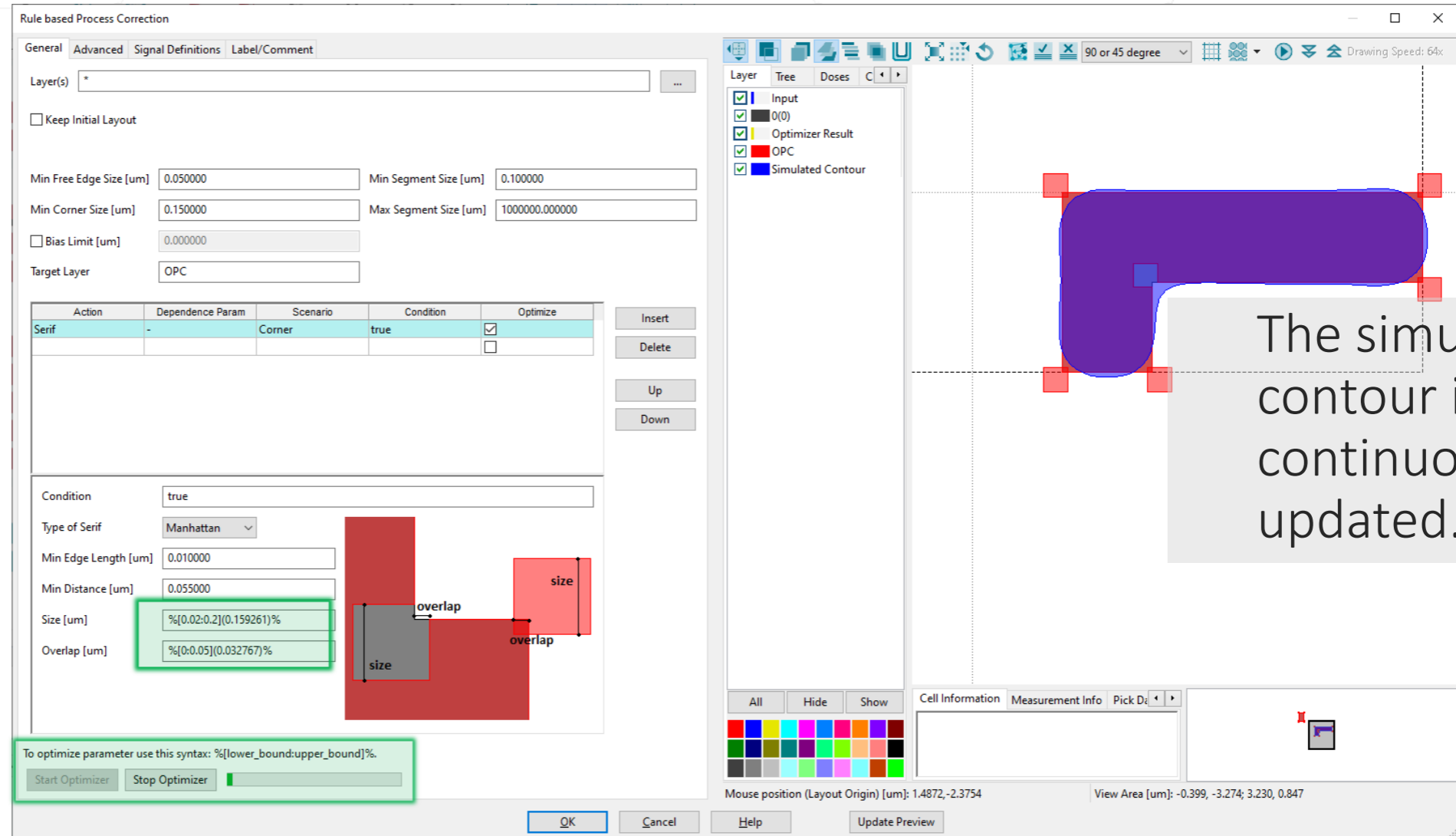
The preview functionality shows:

- Segment assignment on original layout
- Resulting layout after rule application
- Exposure simulation result of corrected layout



Define the parameter range in the rules, using the following format:

`%[min value:max value]%`



The screenshot shows the 'Rule based Process Correction' dialog box with the following configuration:

- Layer(s): *
- Keep Initial Layout:
- Min Free Edge Size [um]: 0.050000
- Min Segment Size [um]: 0.100000
- Min Corner Size [um]: 0.150000
- Max Segment Size [um]: 1000000.000000
- Bias Limit [um]: 0.000000
- Target Layer: OPC

Action	Dependence Param	Scenario	Condition	Optimize
Serif	-	Corner	true	<input checked="" type="checkbox"/>

Condition: true

Type of Serif: Manhattan

Min Edge Length [um]: 0.010000

Min Distance [um]: 0.055000

Size [um]: `%[0.02:0.2](0.159261)%`

Overlap [um]: `%[0:0.05](0.032767)%`

To optimize parameter use this syntax: `%[lower_bound:upper_bound]%`

Start Optimizer | Stop Optimizer

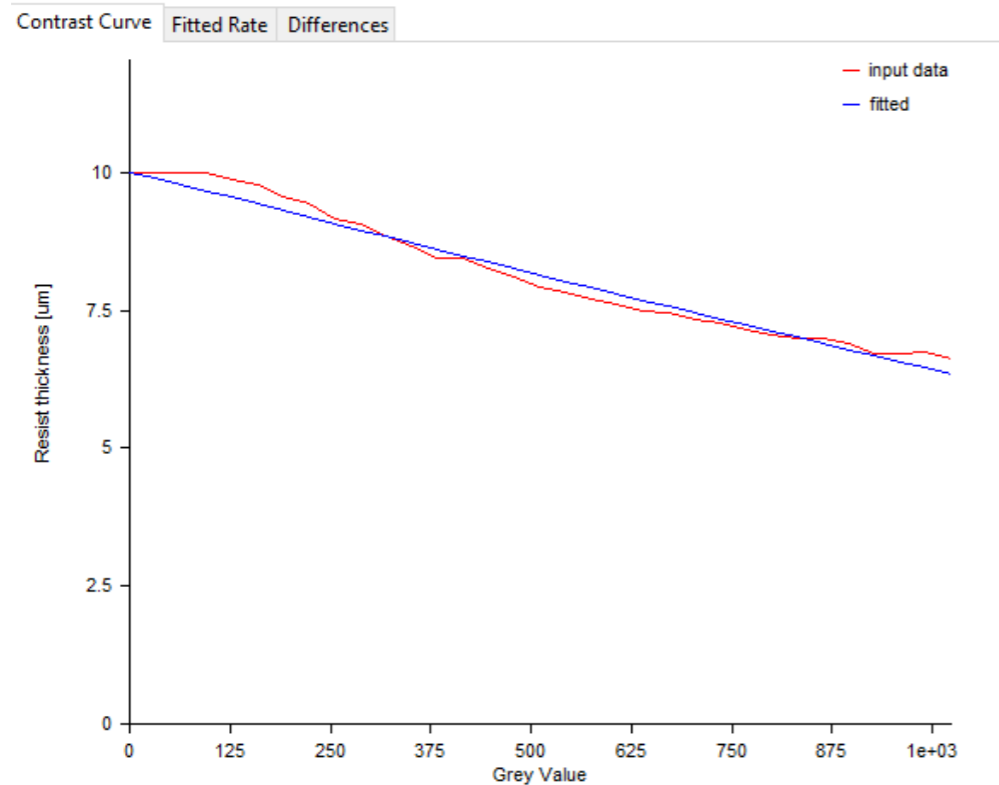
The right side of the interface shows a 2D layout view with a simulated contour (blue) overlaid on the input (purple). A text box states: "The simulated contour is continuously updated."

Contrast Curve Fitting

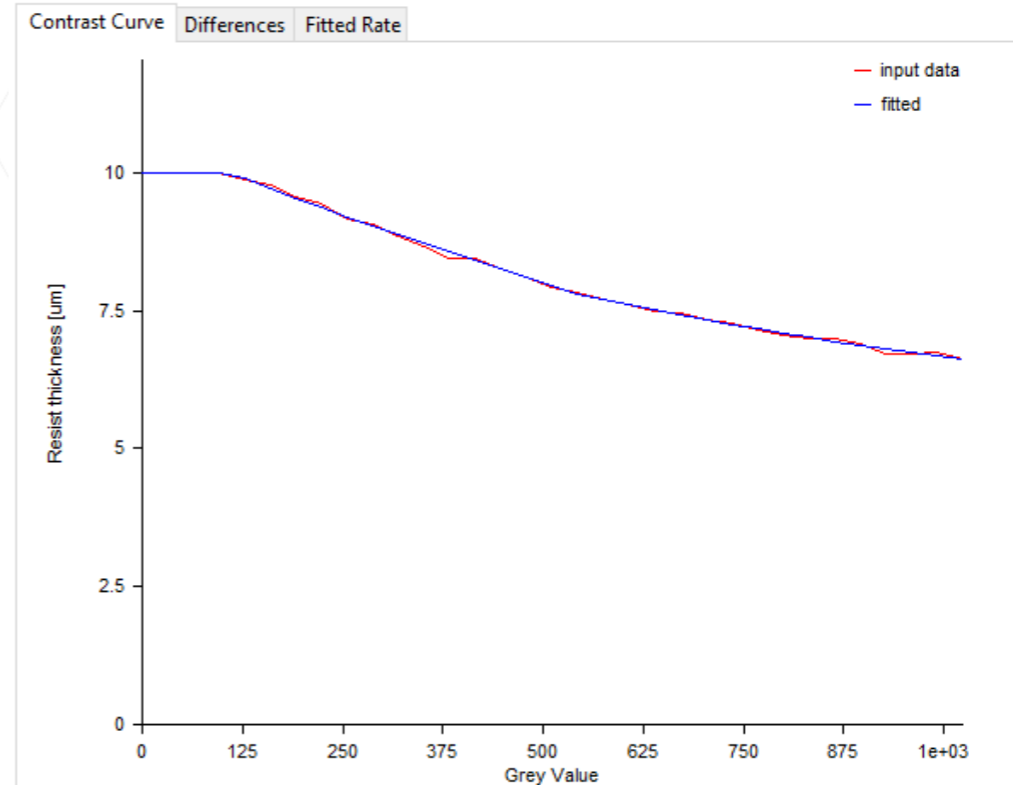
Segmented Development Rate Model

The old development rate model has been replaced with a new segmentwise development rate model, to ensure better fitting results for contrast curves.

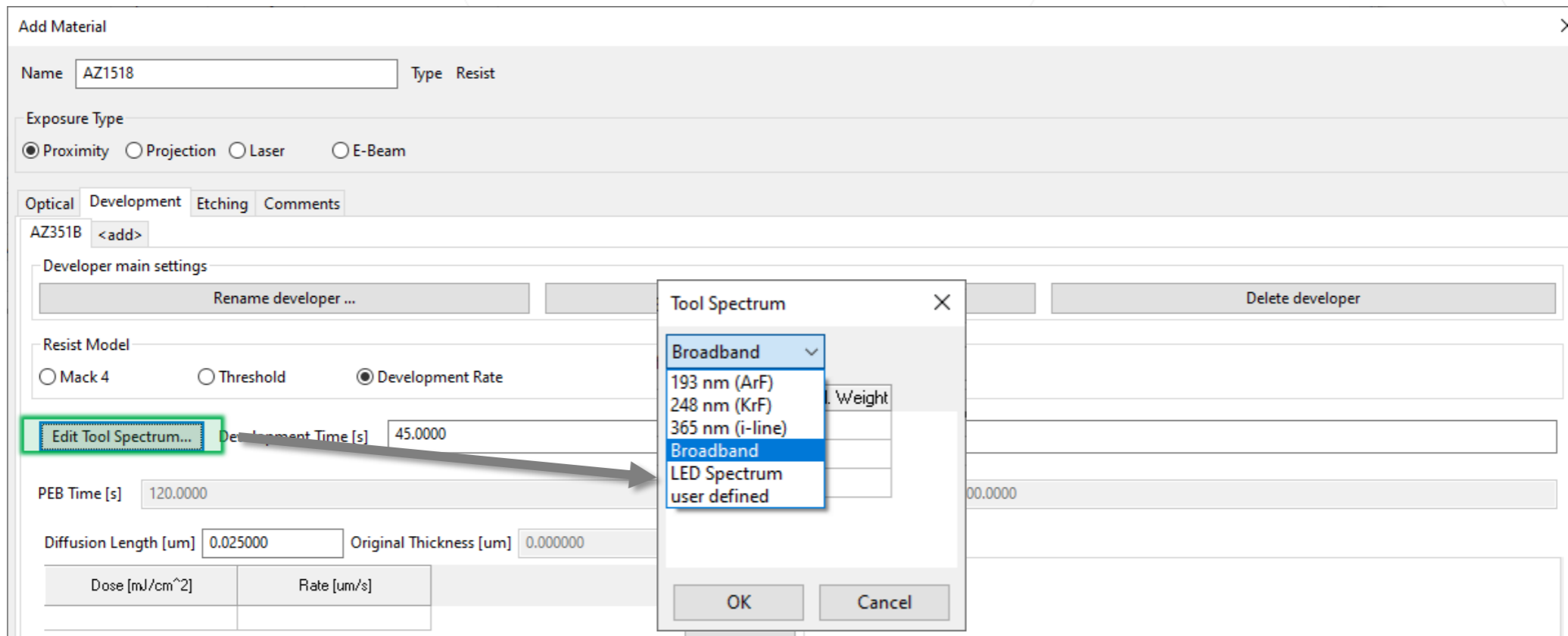
Old version



LAB 5.8

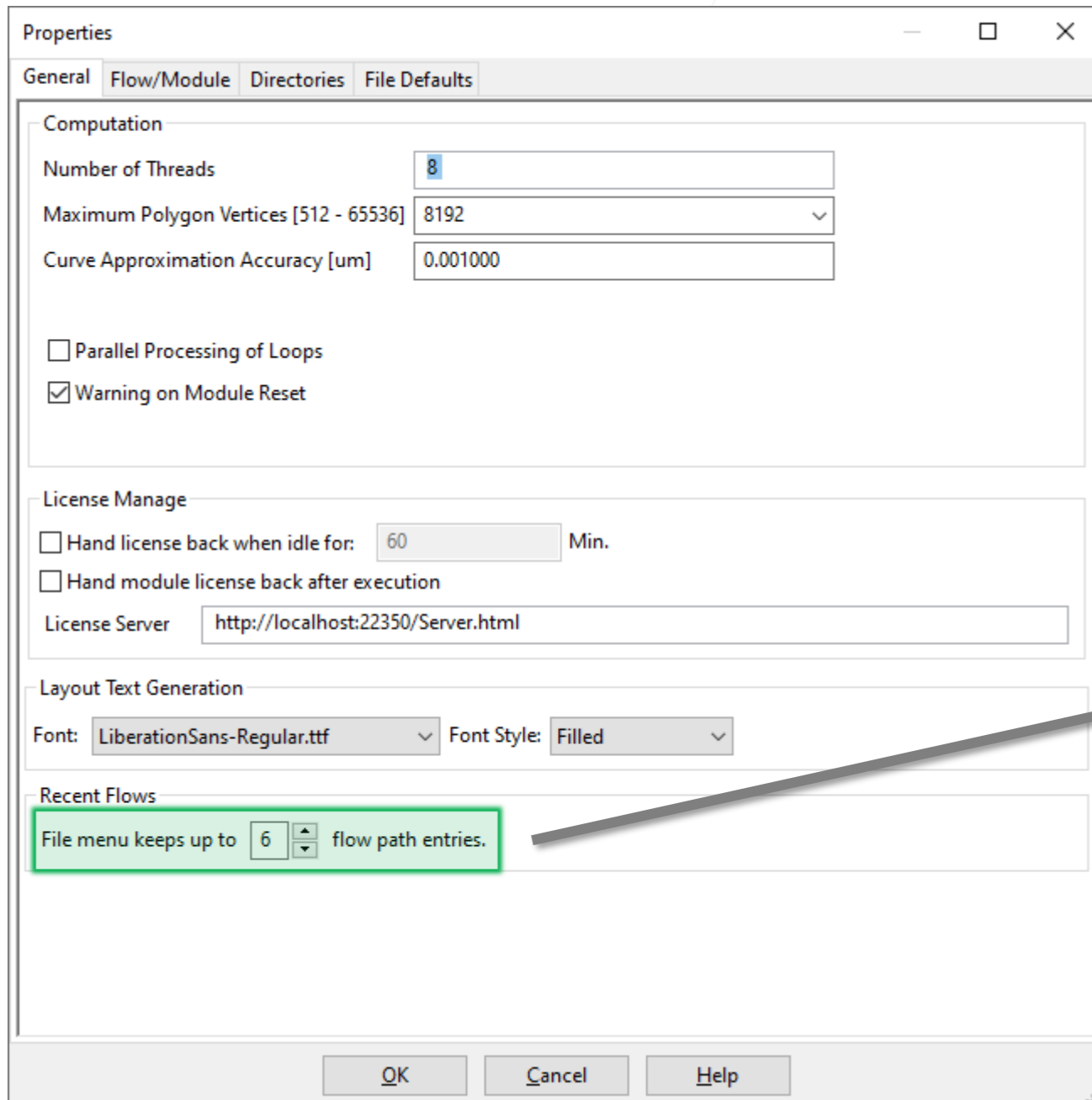


The user can now select the used exposure spectrum to ensure better fitting of the Contrast Curve.



Usability

- The number of recent flows can be adjusted via a properties setting.



Properties

General Flow/Module Directories File Defaults

Computation

Number of Threads: 8

Maximum Polygon Vertices [512 - 65536]: 8192

Curve Approximation Accuracy [um]: 0.001000

Parallel Processing of Loops

Warning on Module Reset

License Manage

Hand license back when idle for: 60 Min.

Hand module license back after execution

License Server: http://localhost:22350/Server.html

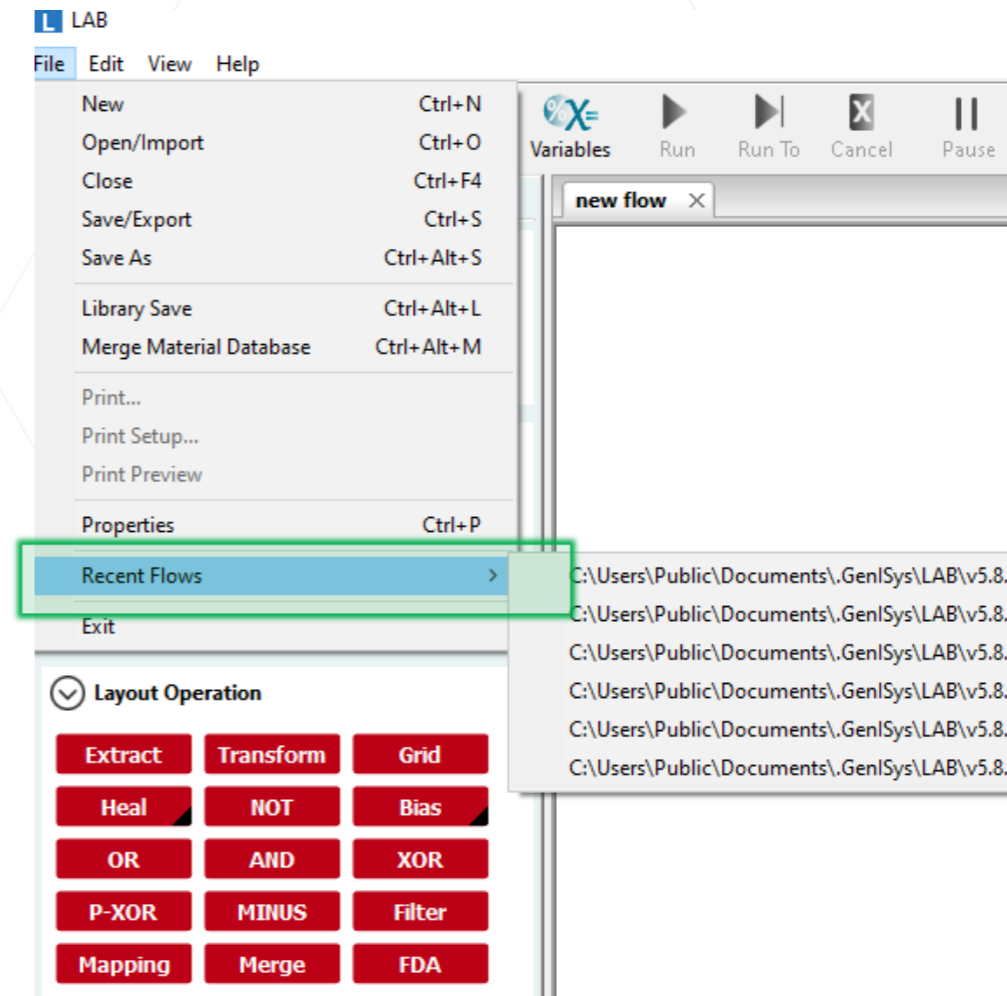
Layout Text Generation

Font: LiberationSans-Regular.ttf Font Style: Filled

Recent Flows

File menu keeps up to 6 flow path entries.

OK Cancel Help



LAB

File Edit View Help

New Ctrl+N

Open/Import Ctrl+O

Close Ctrl+F4

Save/Export Ctrl+S

Save As Ctrl+Alt+S

Library Save Ctrl+Alt+L

Merge Material Database Ctrl+Alt+M

Print...

Print Setup...

Print Preview

Properties Ctrl+P

Recent Flows

Exit

Layout Operation

Extract Transform Grid

Heal NOT Bias

OR AND XOR

P-XOR MINUS Filter

Mapping Merge FDA

Thank You!

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