

LAB

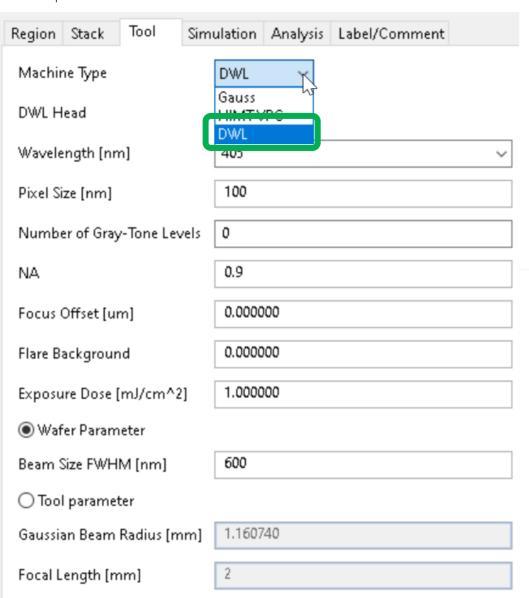
What's New LAB 5.4.0





Laser Simulation DWL

Laser Exposure

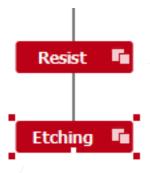


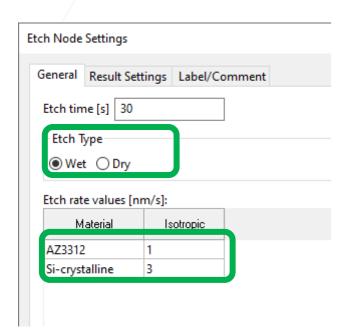
- Enhanced support of the HIMT DWL tool
 - Selecting the DWL Tool will preset the simulation parameters





Etching



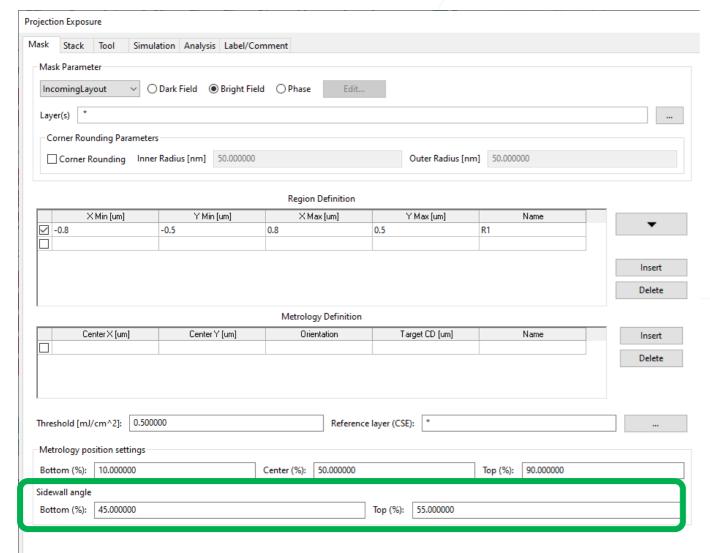




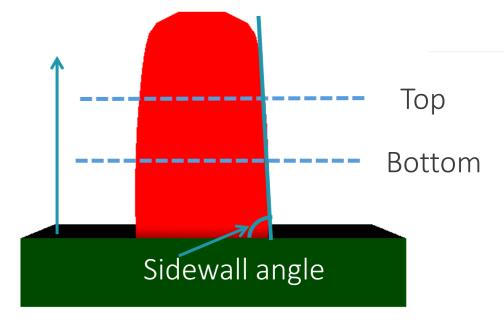
- The Etching module allows simulating of resist and substrate etching with known etch rates.
- The module has been improved where the substrate is now etched without requiring an intermediate layer.



Separate Sidewall Angle Definition



- Sidewall Angle calculation now allows seperate relative height value definition.
 - Enhanced sidewall angle calculation accuracy





Analysis & Viewing



y [um] 737 In GDSII Projection (1) Projection • 665 x [um] 738 y [um] y [um] 735 667 735 x [um] 665 667

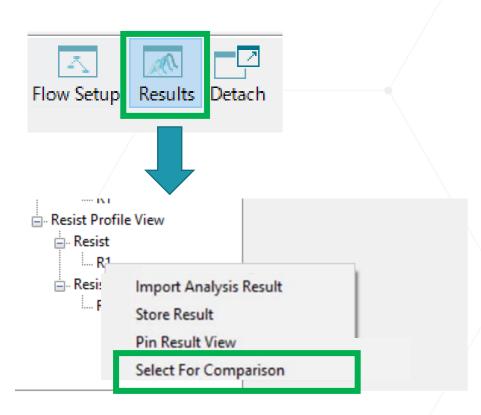
x [um]

Contour Comparison

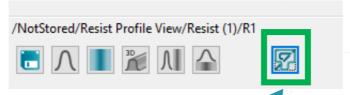
- LAB 5.4 allows the user to compare contour lines from different simulations in one 2D plot.
- Contour comparison is available in "Results" panel.



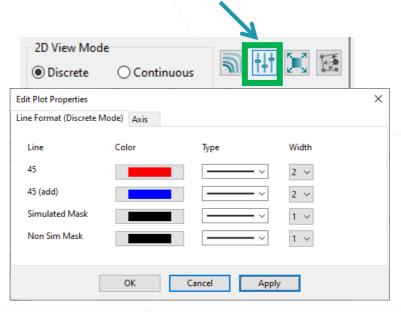
Contour Comparison Procedure

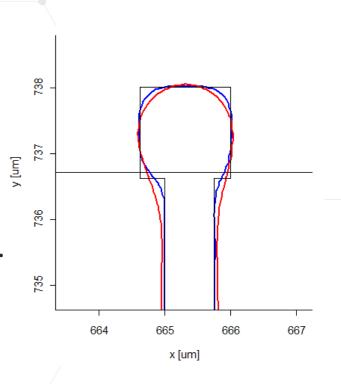


- 1. Select the view for comparison
- 2. Click on another image of the same type and contour image is selected.



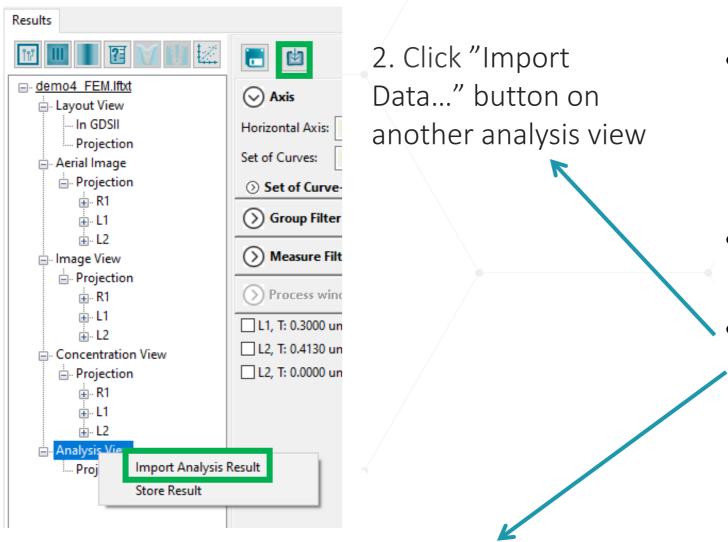
- 3. Activate the comparison by "Show Comparison Contours" button
- 4. The contour properties is available via the "2D format dialog".







Import Metrology Data



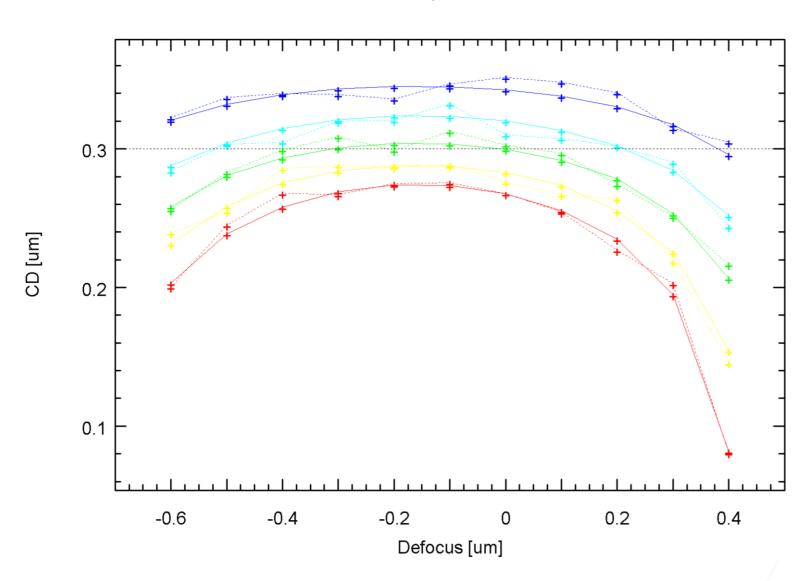
- In the result tree, the user has now the possibility to import external metrology data to create his own analysis.
- The format of the data file is in table style.
- Two ways to import the metrology data

1. Right click on the result tree to import



Metrology Data Comparison

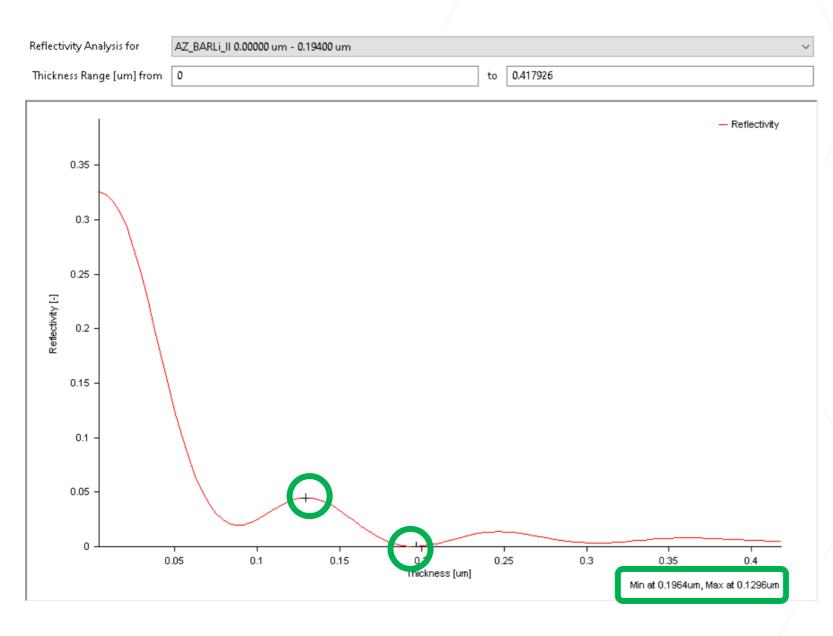




- The imported metrology data can be compared with the simulation result.
 - Imported data from the result tree is compared via "Select for Comparison".
 - Direct imported data by "Import Data…" button is compared in the same plot.



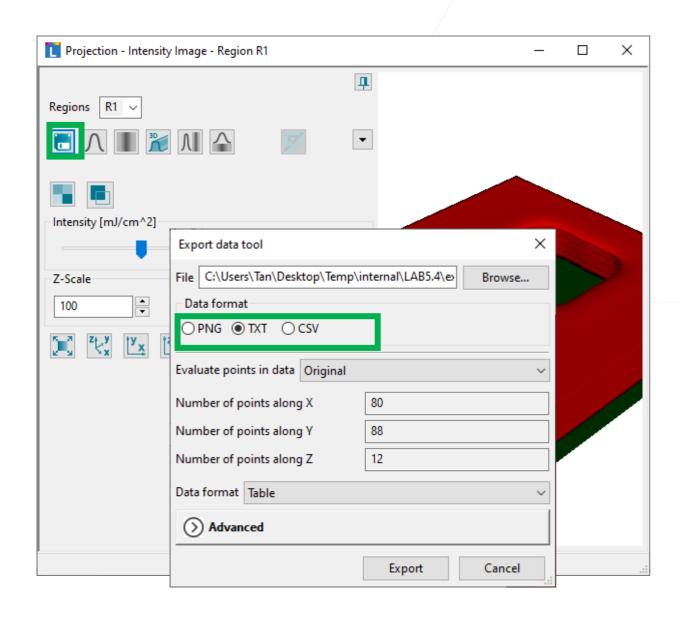
Reflectivity Analysis – Min/Max



 The Reflectivity Analysis now automatically calculates the min and max reflectivity values, and highlights the positions and displays the results.



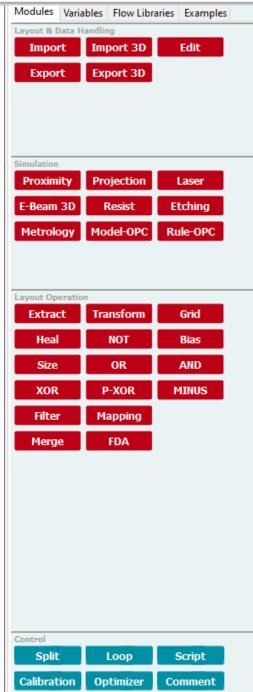
3D View Export

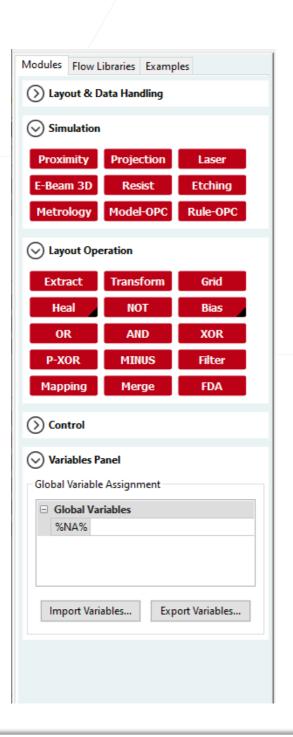


- 3D results view now allow exporting the full data set for analysis outside of LAB
- Newly available formats are .txt file and .csv
- Adjustable output parameters and header information









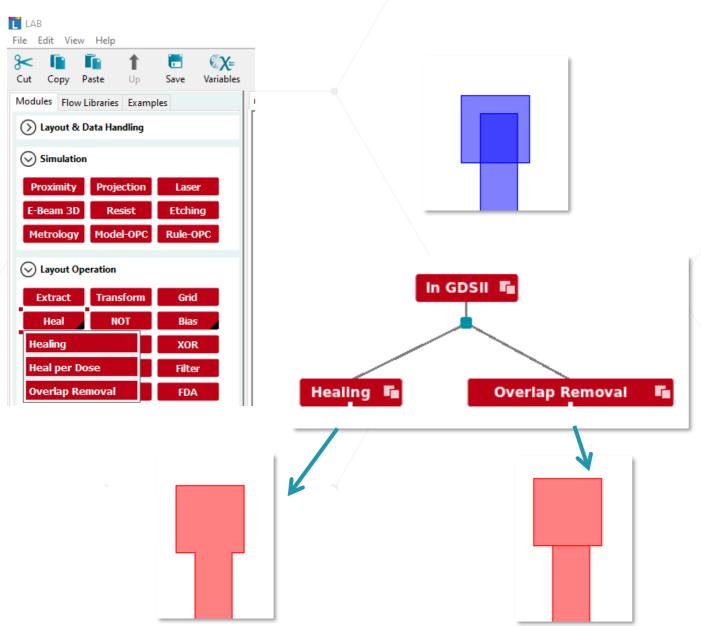
Update Modules Tab

The Modules tab has been reworked offering now:

- Collapsible groups by introducing accordion panels
- Quick access to Global Variables
 - Global Variables with Import & Export functions.



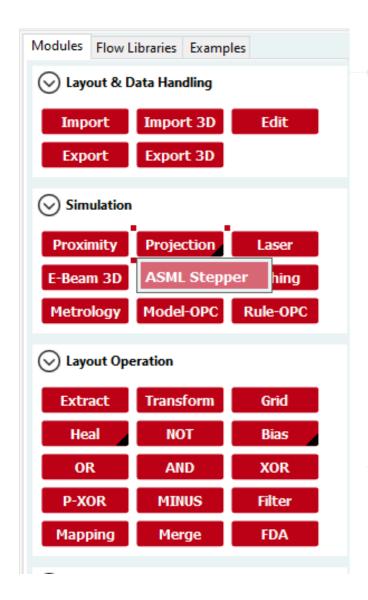
Submodules



- Modules can now have multiple custom configurations, or "submodules"
- New defaults provided for: Heal, Bias
- New custom modules can be created by right-clicking on a module and clicking "Create Custom Module..."





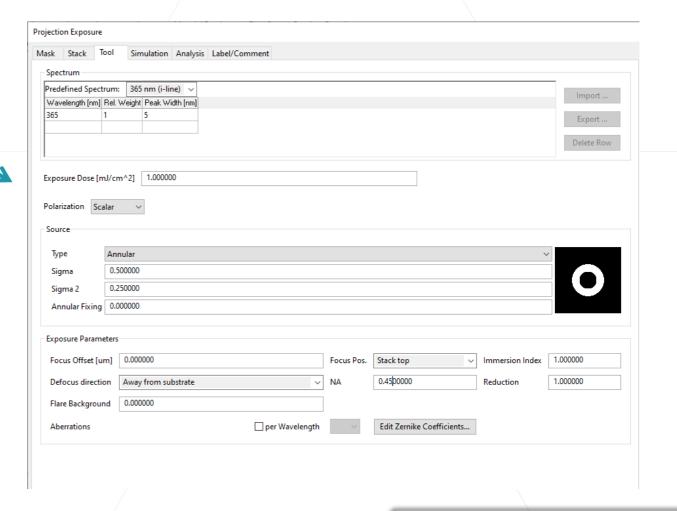


In GDSII >

ASML Stepper ▶

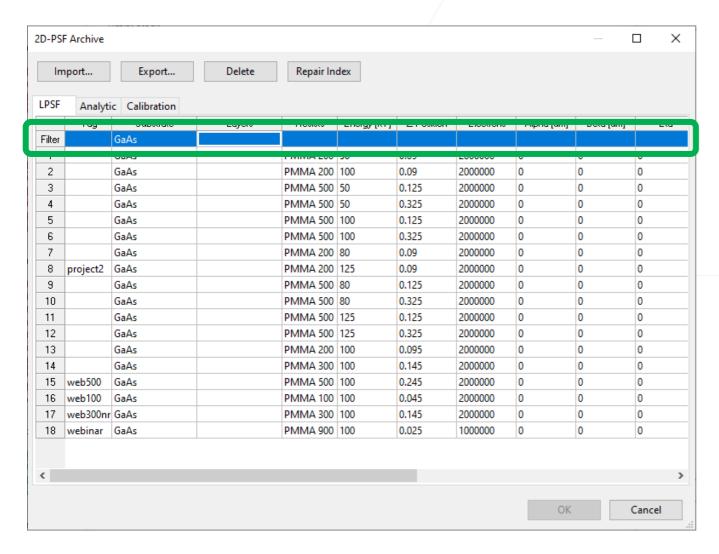
Submodule Example

• Example : Submodules can be configured for user facilities, allowing default tool configuration for user.





PSF Filter Sorting



- For E-Beam 3D module, the PSF can be selected from 2D/3D Archive.
- New PSF filter option to allow multiple filters.
- First row of table is now the filter-percolumn. Clicking on the column label results in ascending sorting, a second click in descending sorting.



Thank You!

support@genisys-gmbh.com



Headquarters

GenlSys GmbH Eschenstr. 66 D-82024 Taufkirchen (Munich) GERMANY

1 +49-(0)89-3309197-60

± +49-(0)89-3309197-61

⊠ info@genisys-gmbh.com

USA Office

GenlSys Inc. P.O. Box 410956 San Francisco, CA 94141-0956 USA

1 +1 (408) 353-3951

⊠ usa@genisys-gmbh.com

Japan / Asia Pacific Office

GenlSys K.K. German Industry Park 1-18-2 Hakusan Midori-ku Yokohama 226-0006 JAPAN

3 +81 (0)45-530-3306

□ apsales@genisys-gmbh.com