

BEAMER

What's new 7.2



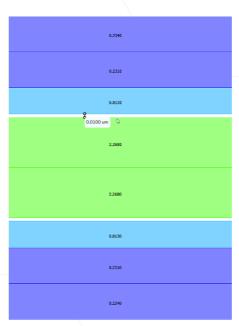
T-gate correction

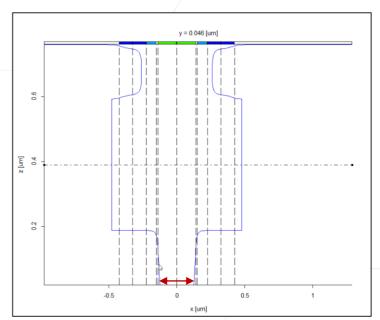


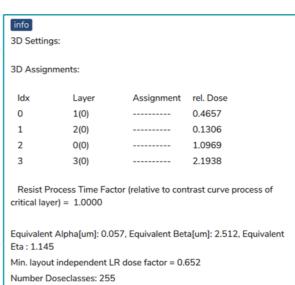
Improvement of T-gate PEC

The correction criteria has been adjusted to the bottom CD of the Tgate foot to ensure clearing of the resist (10% above the substrate interface).

This will change the correction results in BEAMER 7.2.



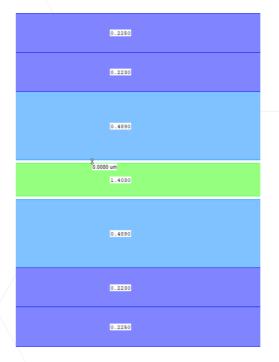




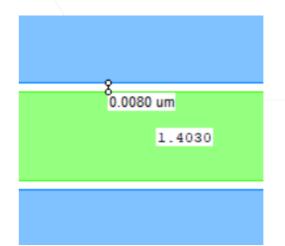


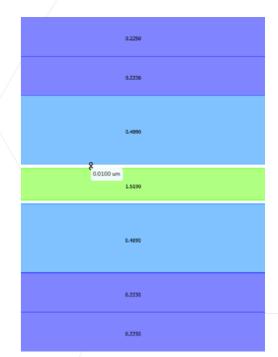
3D T-gate PEC: Contrast Curve data processing

- In the previous version, the default gate-PEC dose was equal to the dose to clear of the foot Contrast Curve, so the development time had to be slightly increased.
- It is now assumed that the CC and the T-gate PEC are performed with the same process, including time. This increases the default gate-PEC dose since we need a dose that fully develops through all layers within the same process time.
- In summary, the foot layer receives a higher dose making it consistent with the simulation.



BEAMER 7.1.0





BEAMER 7.2.0





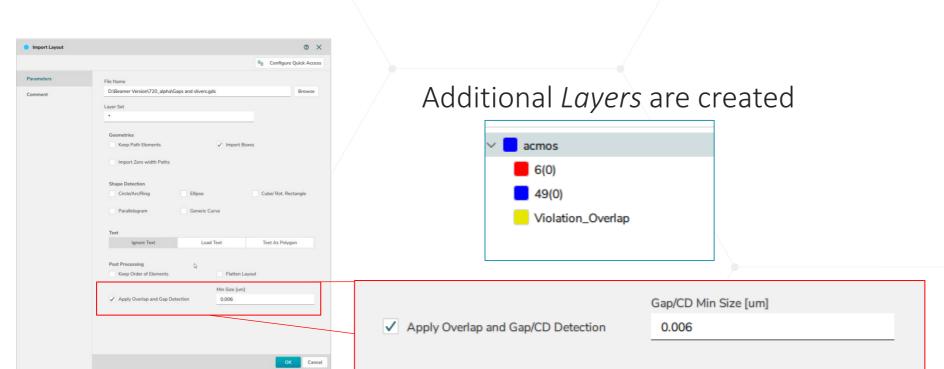
Pattern validation

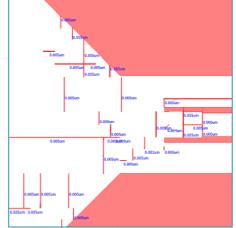


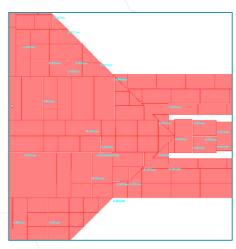
Add functionality (view mode) to show gaps and slivers

GDS and DXF Import new feature:

Small elements with unintended design issues (gaps and slivers) can be detected and highlighted in viewing mode.







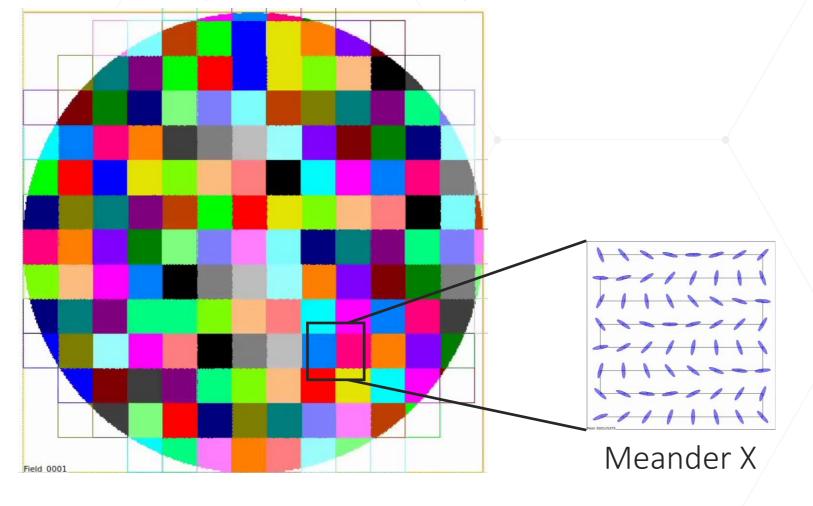


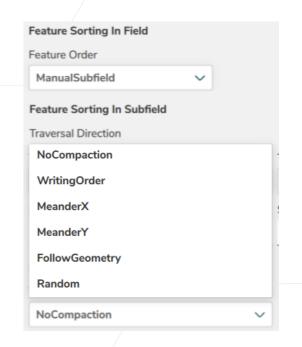
Field control

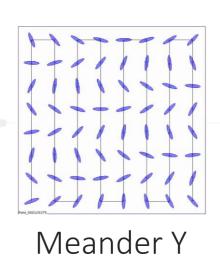


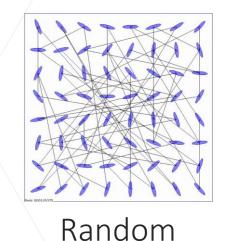
Manual Subfield ordering

 BEAMER extends the writing field control down to the Subfield level using the Manual Subfield feature sorting, by applying a write sequence to the shapes within a subfield.









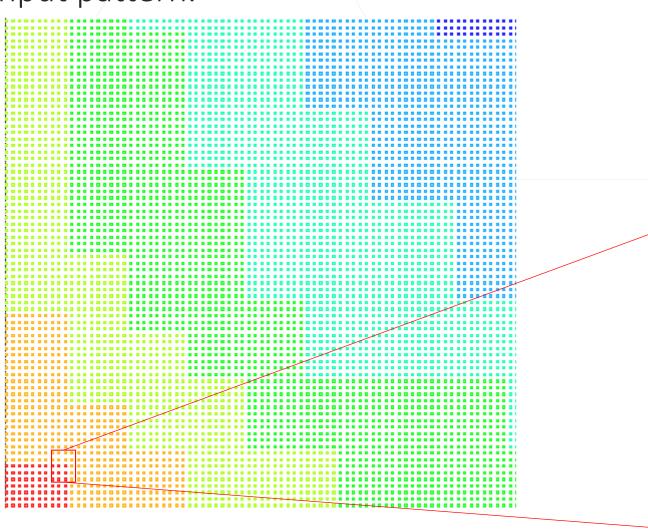


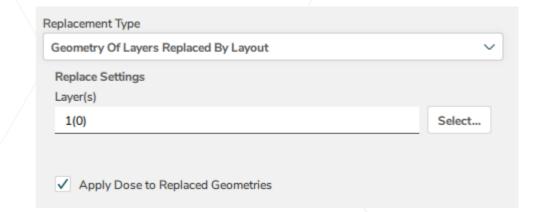
Dose inheritance

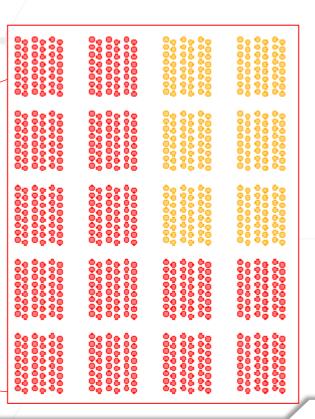


REPLACE inherits dose from placeholder

REPLACE can now inherit the dose information of the element it is replacing and apply it to the input pattern.









Shape detection DXF



DXF Shapes

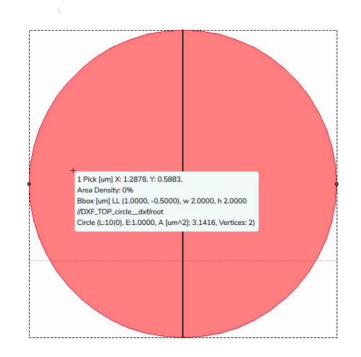
DXF format increases its import settings to detect special shapes:

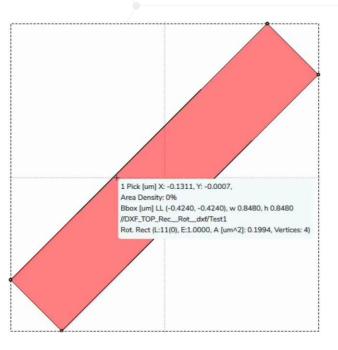
Circles, Rings, Arcs, Ellipses,

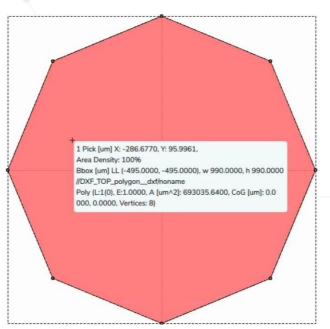
Rotated Rectangles,

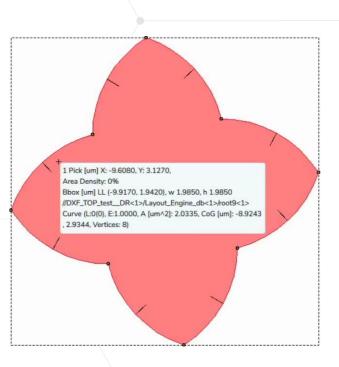
Parallelograms and Generic Curves











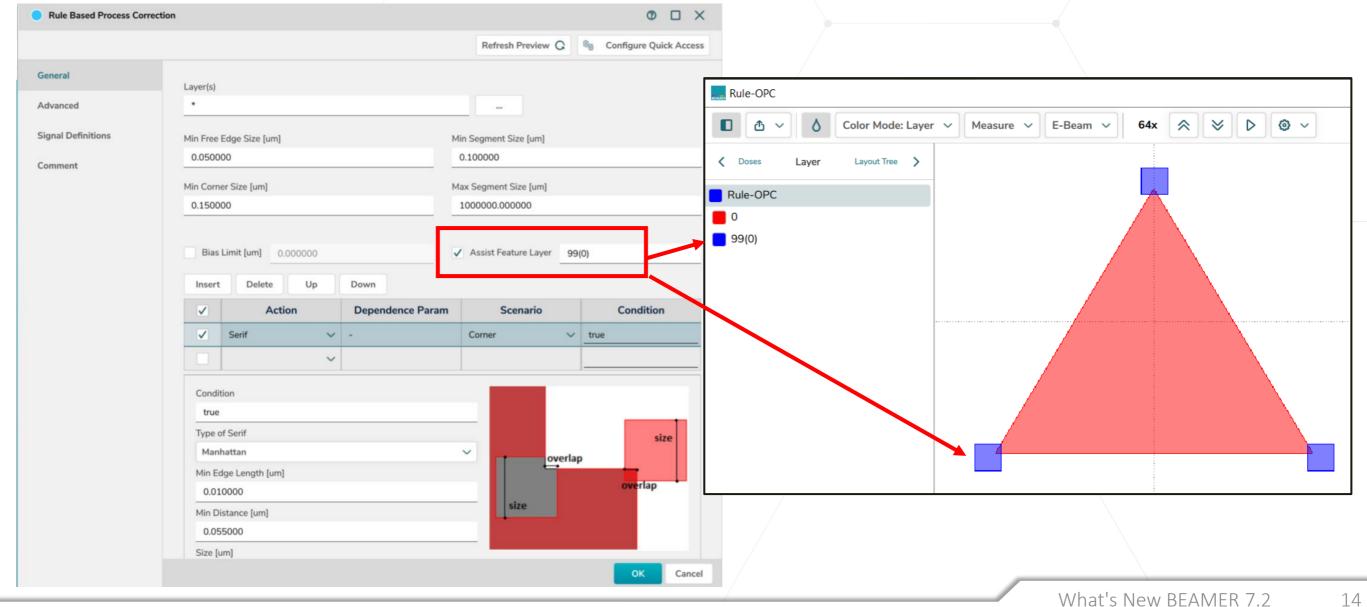


Rule-OPC





Rule-OPC can outputs the Assist Features (serifs,...) onto a separate layer





VIEWER improvements



Preserve Zoomed Area

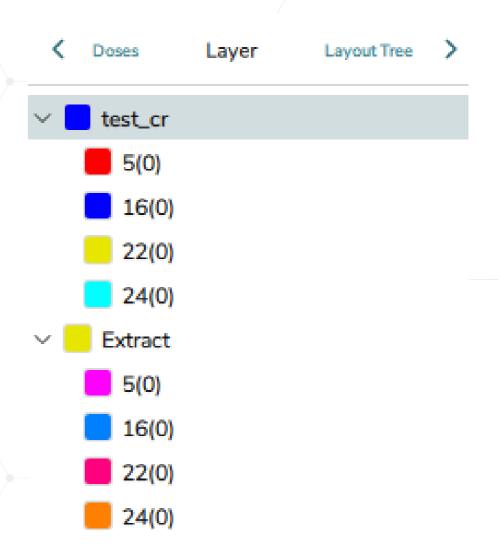
- The last zoom settings are saved
- Leaving the View of a module and returning to it restores the original view area settings





Collapse of layer view

 Dose and Layer navigation now includes collapsible lists, making it easier to navigate a large number of layers and doses, especially when using Multiviews.





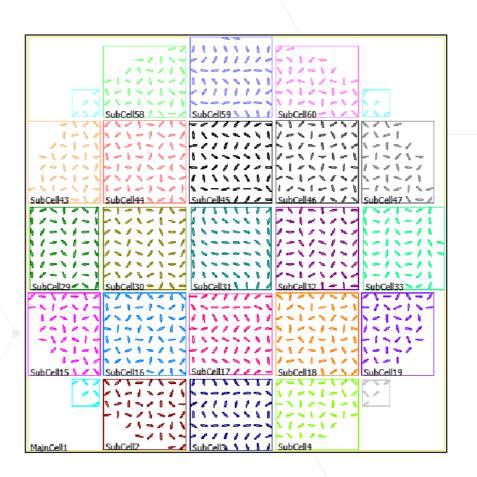
LayoutPy examples



LayoutPy Metalenses

 LayoutPy includes a simple example to create Metalenses for a desired wavelength and focal length and with optimised Field and Subfield ordering





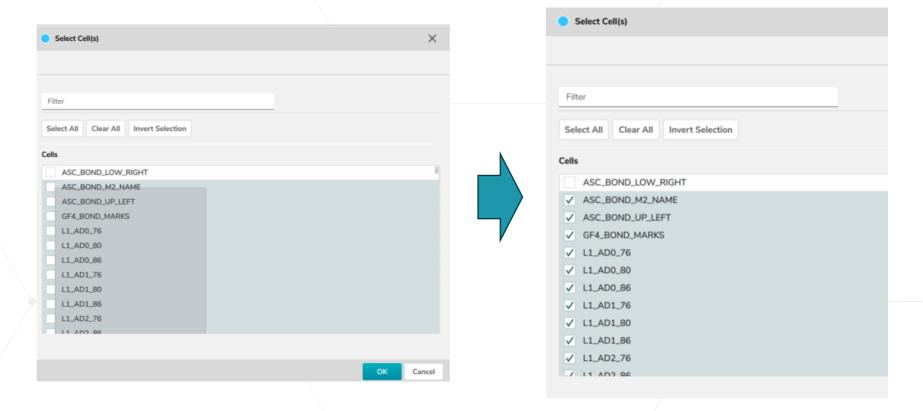


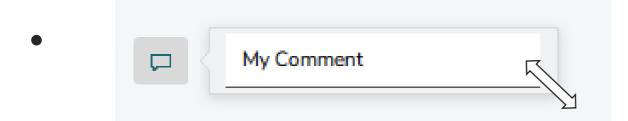
Ul Improvements



EXTRACT - Cell selection

 The EXTRACT allows to drag a selection box on the opened Cells picker to multiselect cells



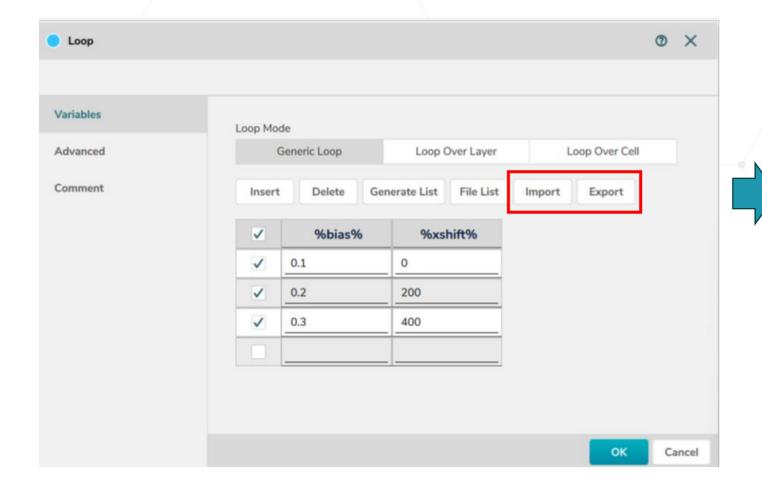


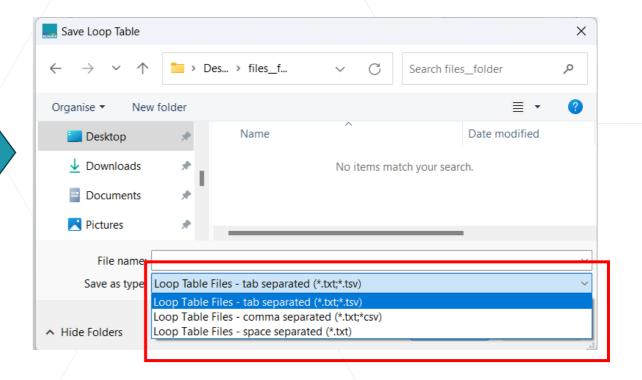
Comment boxes can now be resized



Loop files options

 The Loop module offers more formats during Import and Export of tables making it more versatile







Thank You!

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