SuMMIT Application Notes:
#3 – The Corner Rounding Toolbox

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SuMMIT Measure corners. On everything.

- SuMMIT is a general purpose litho analysis package
- SuMMIT works with wide variety of input data
  - SEM (CD/analytic/cross-section …)
  - AIMS tools and microscopes
  - Aerial image (AI) and resist modeling tools
    - Prolith
    - Solid-EUV
    - Panoramic
    - MAST (our soon-to-be-released AI modeling tool)
  - AFM
  - Any device that creates a graphical image

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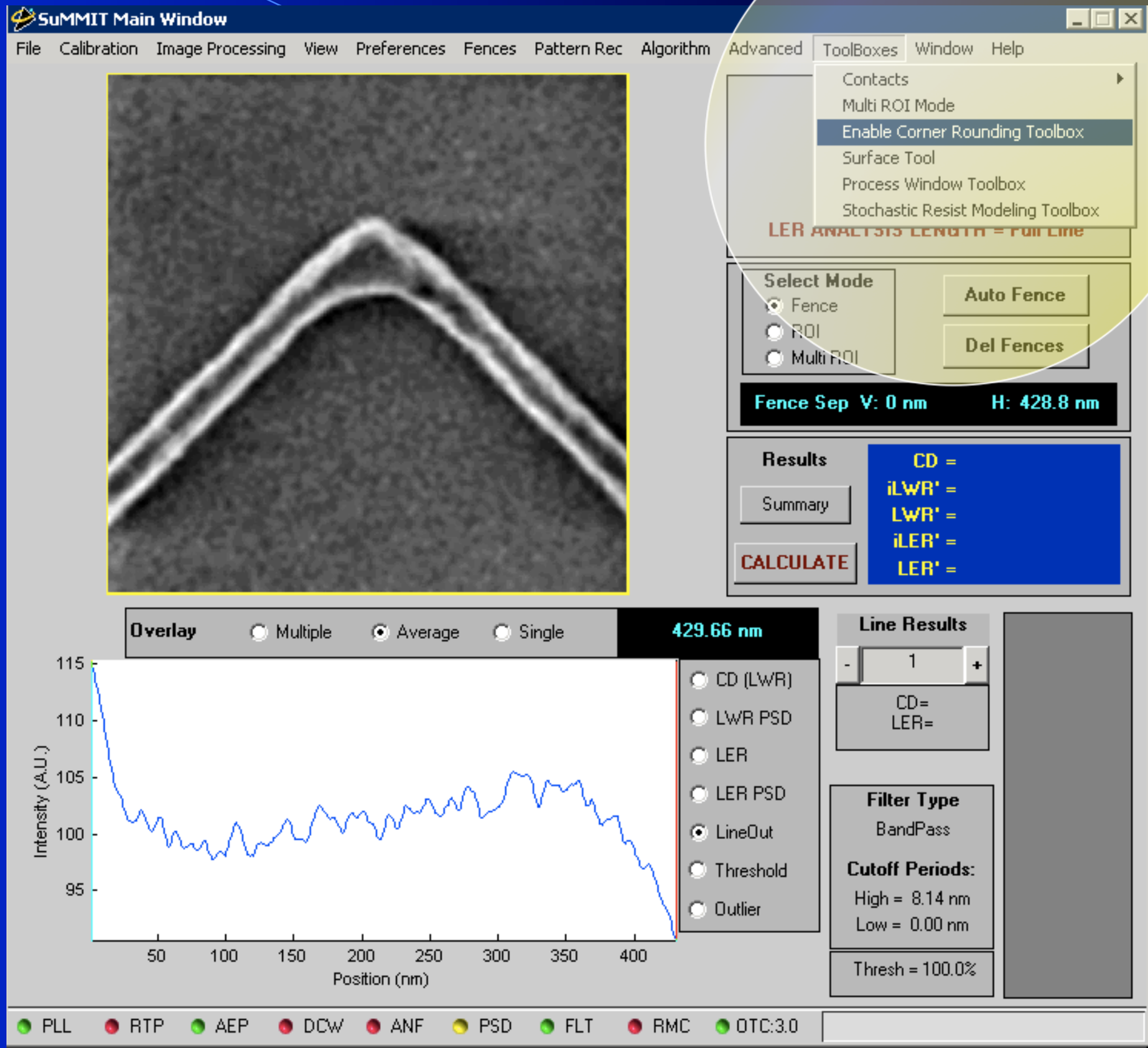
Corner Rounding Toolbox

To begin, load an image containing a corner and enable the corner rounding toolbox.



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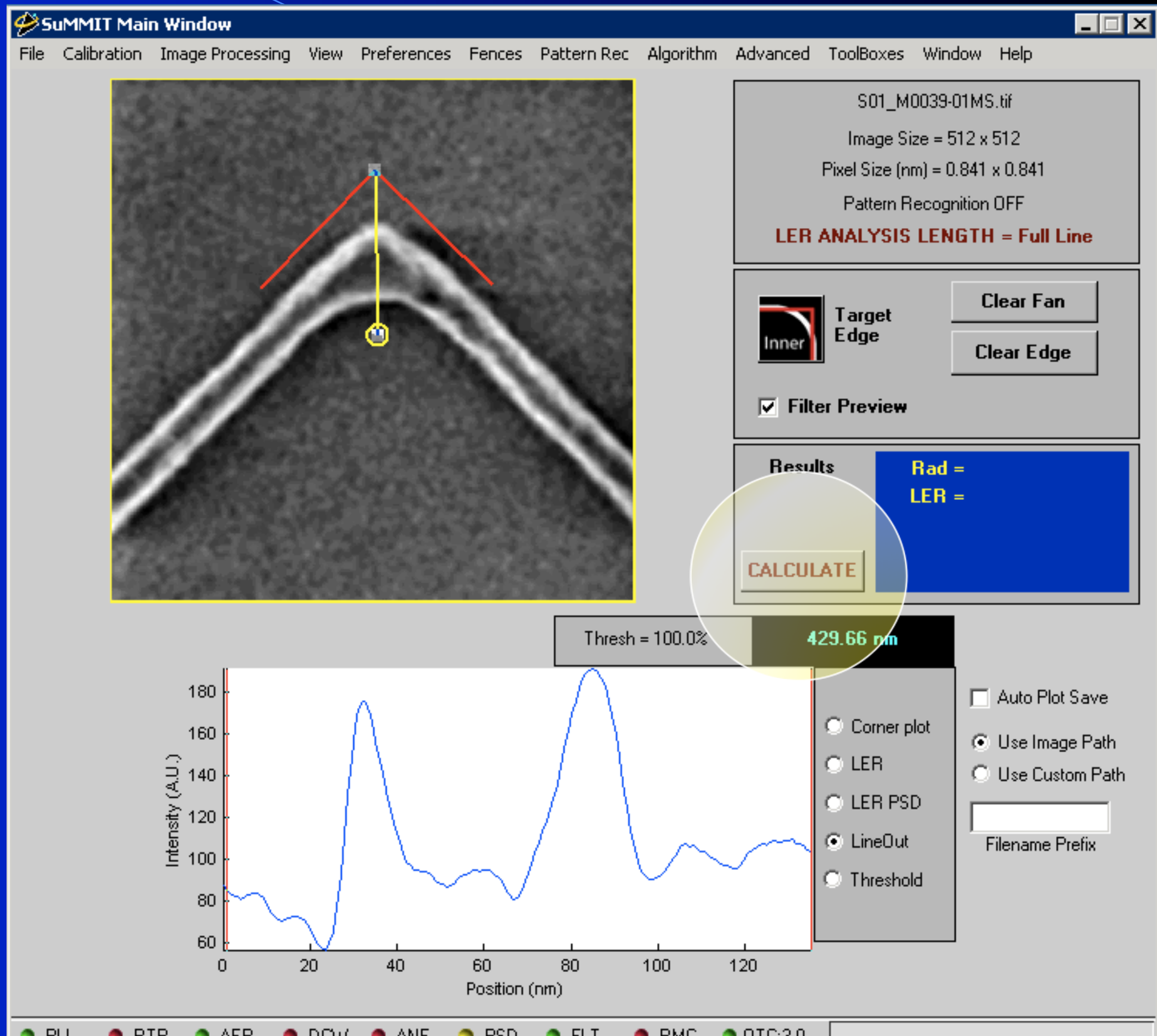
Corner Rounding Toolbox

To measure the curvature of a corner, drag the red elbow (it appears in corner rounding mode) near the desired edge and hit calculate.



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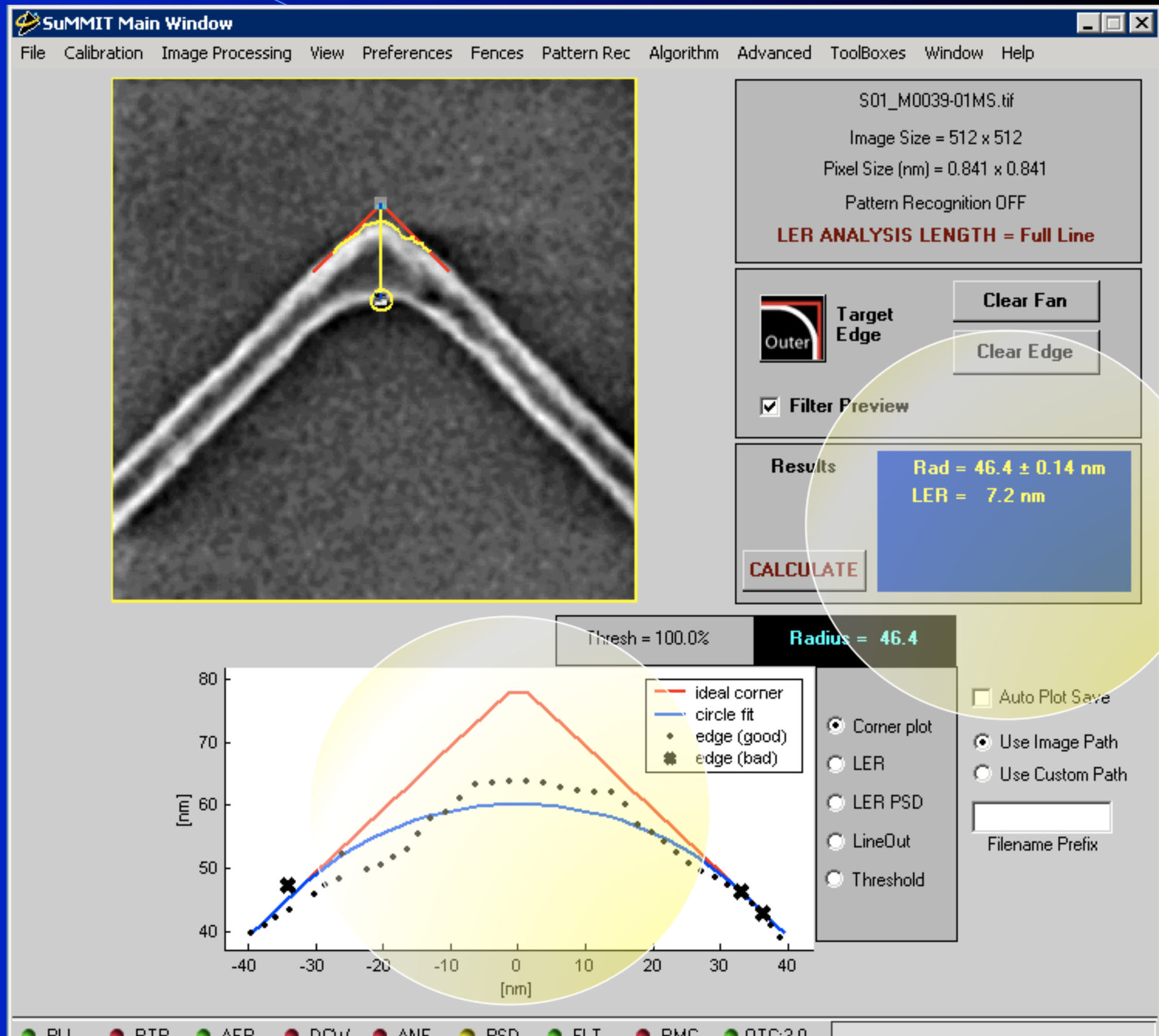
Corner Rounding Toolbox

SuMMIT automatically finds the corner, measures its radius of curvature, LER and produces a plot showing the ideal edge (red), actual edge (black) and best fit circle edge (blue)



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Corner Rounding Toolbox

SuMMIT can also export the plot to a specified location

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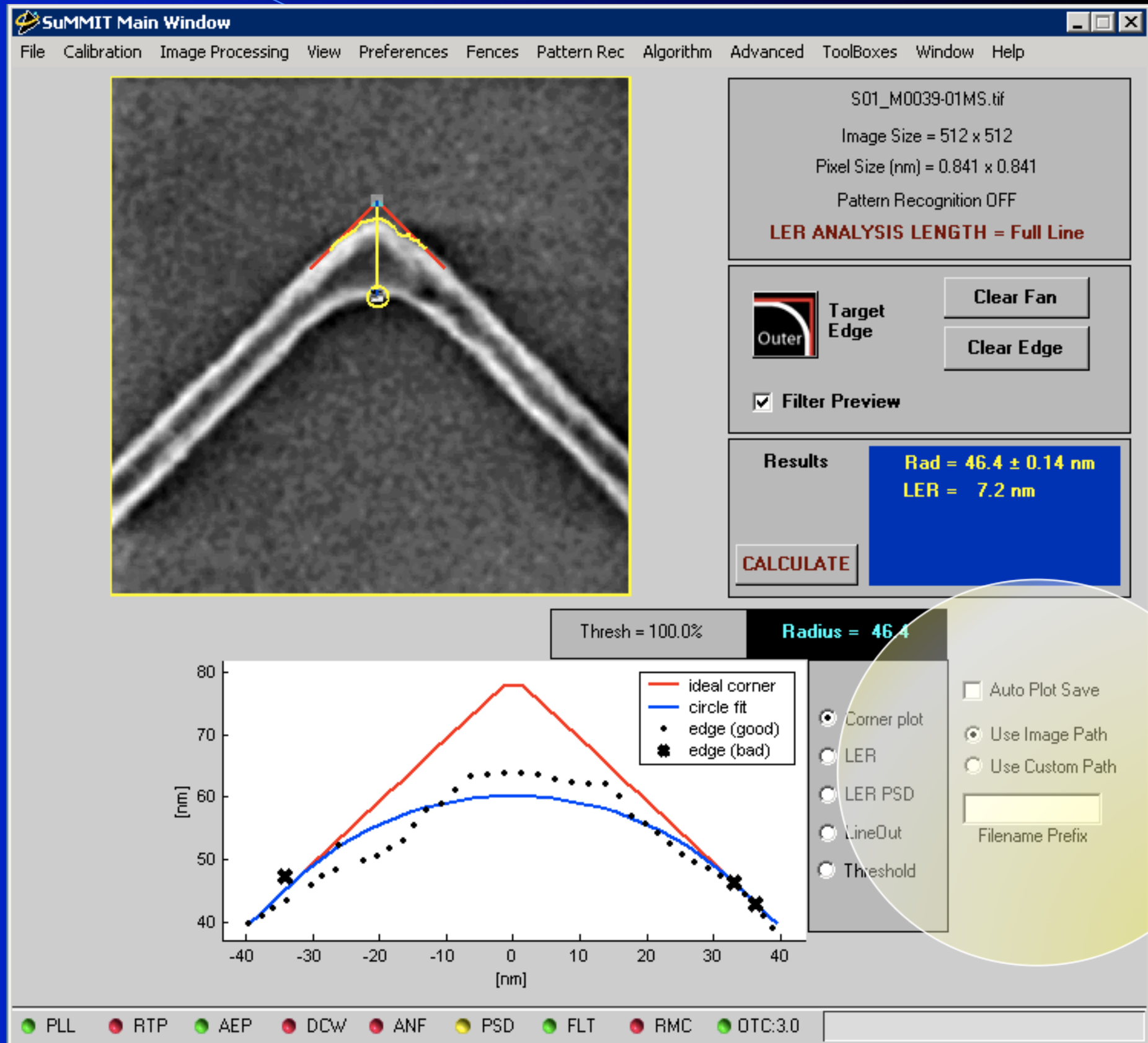
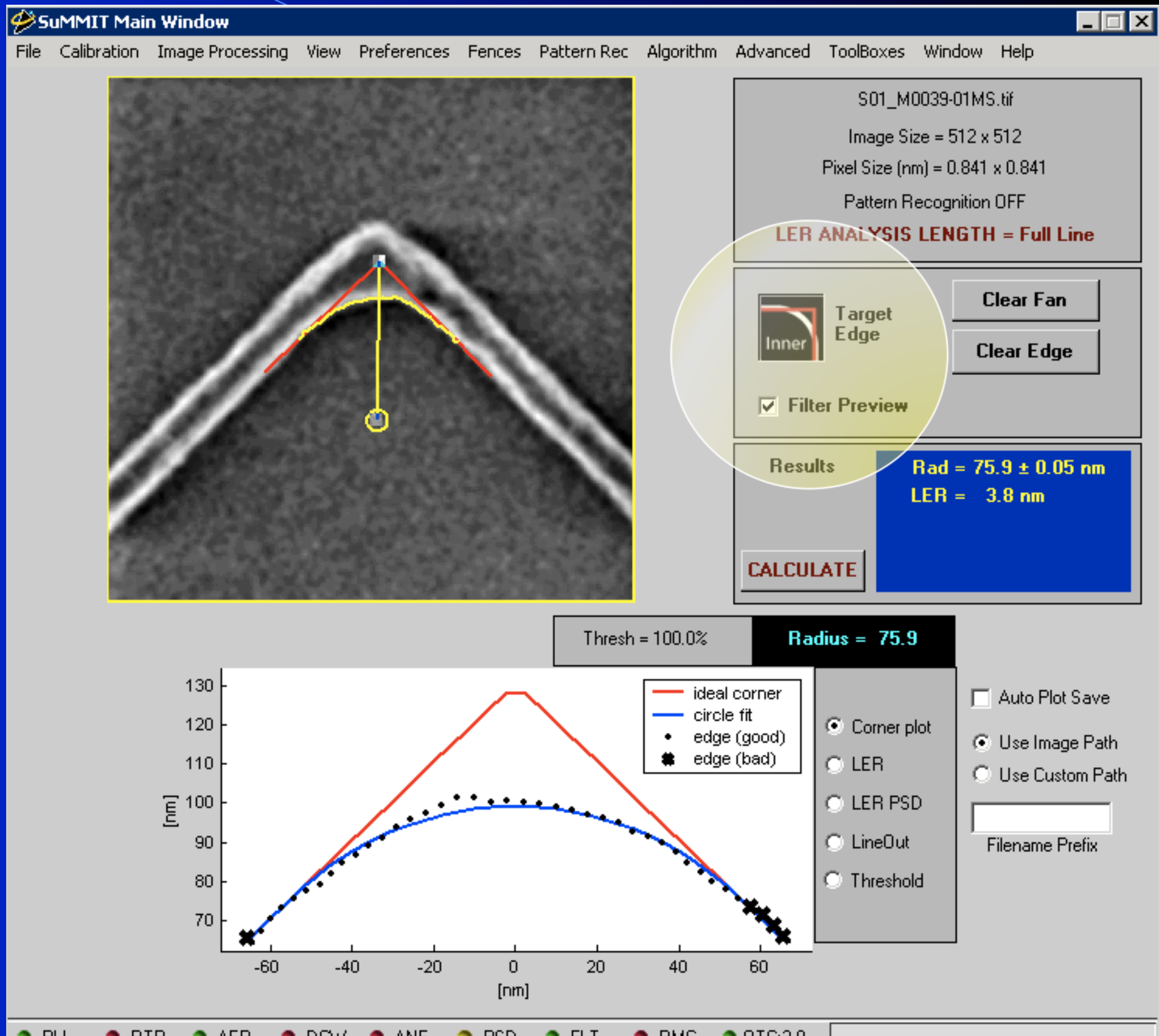


Corner Rounding Toolbox

Changing the target edge enables measurement of inside and outside corners – even when they are in close proximity



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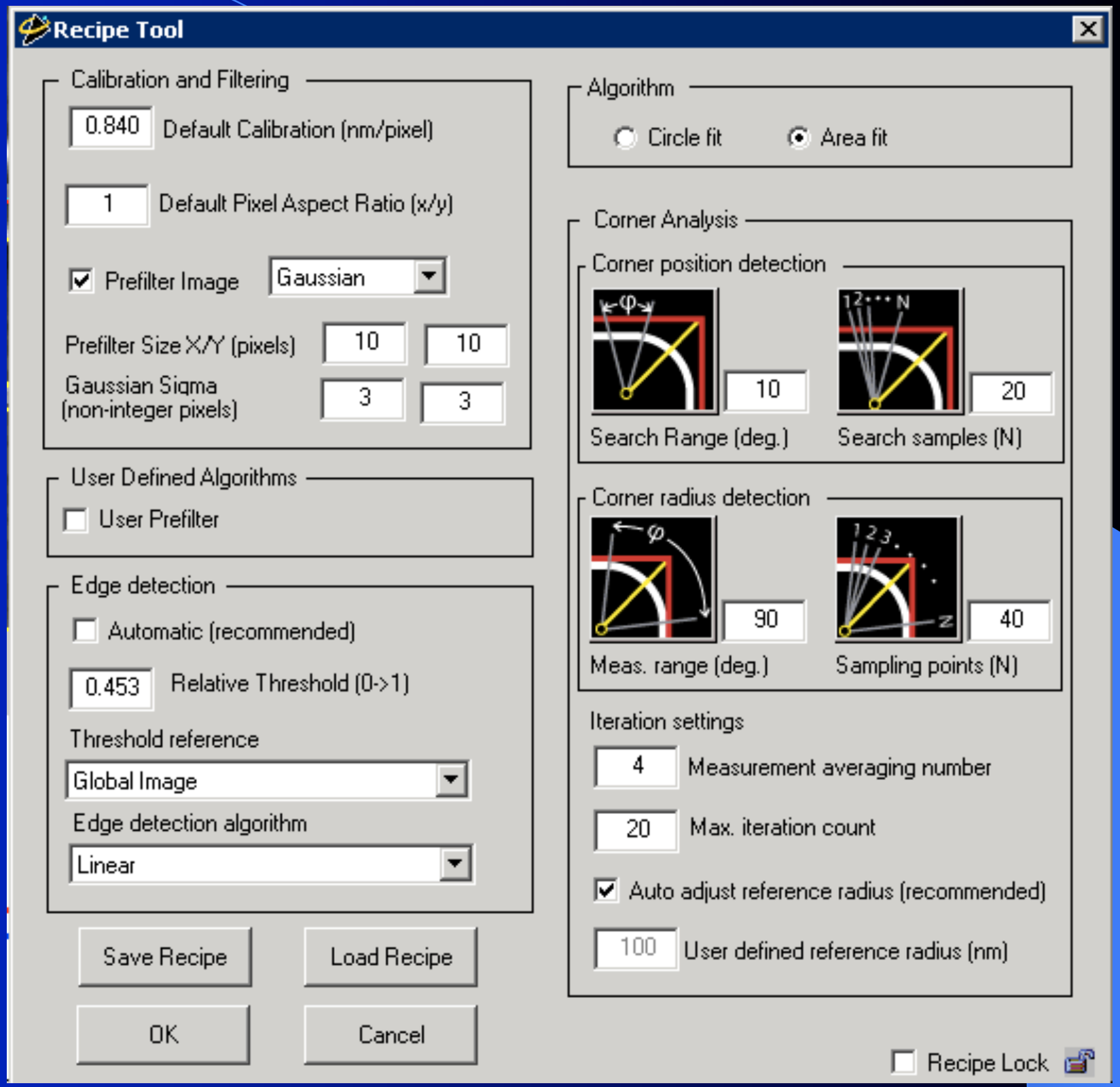
Corner Rounding Toolbox

The recipe tool enables configuration for every task: noisy SEM data, aerial image data, close edges, inside vs. outside edges, multiple threshold levels, etc.



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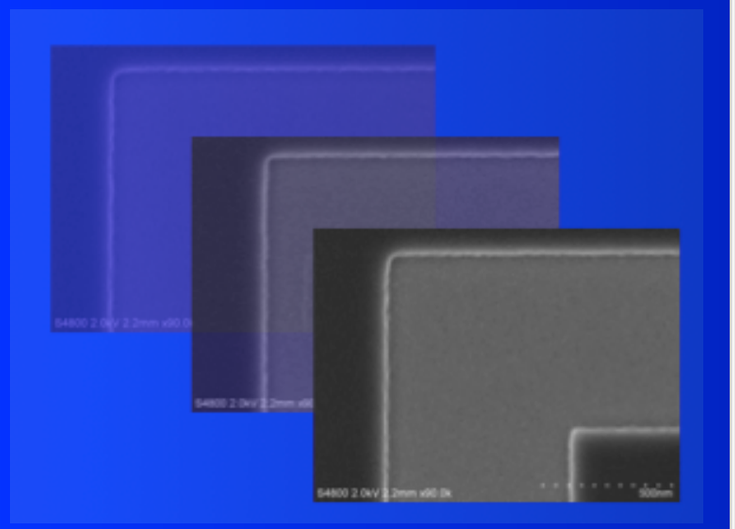
Corner Rounding Toolbox

The corner rounding toolbox also supports batch processing. For a video demonstration, click the link below

http://www.youtube.com/watch?v=RwKQja3arKY



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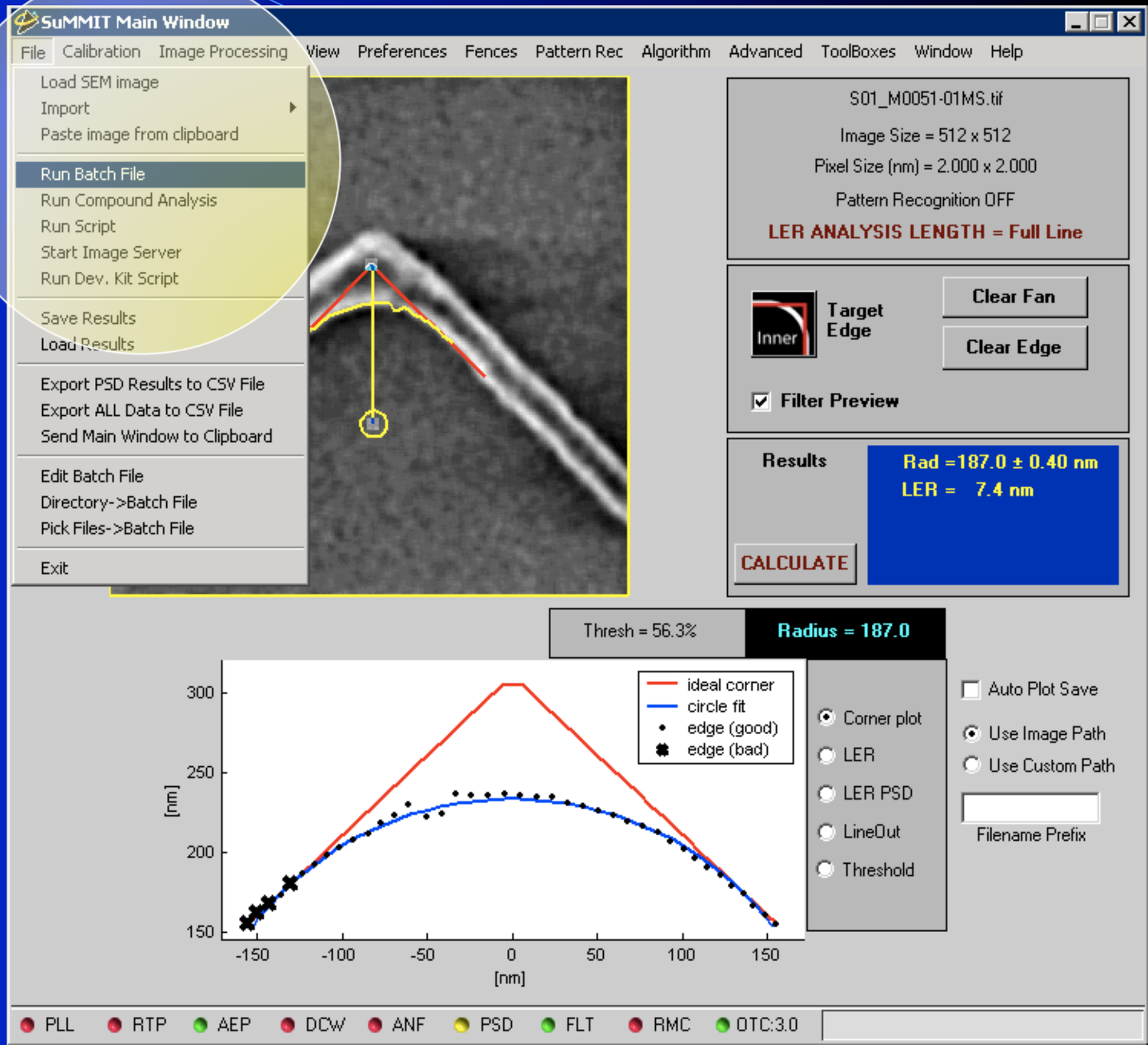

SuMMIT Litho Analysis Software

For more information
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