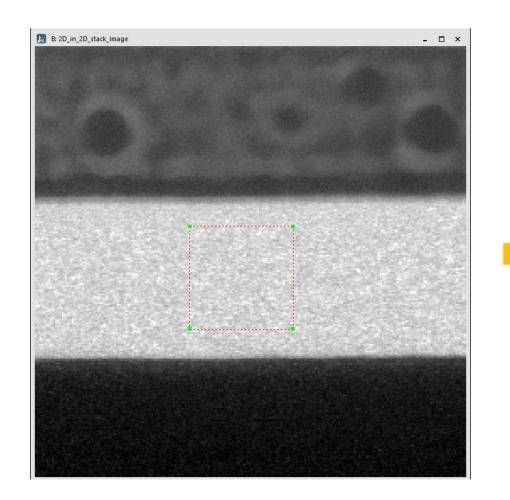
Transformation into a spectrum image

Requirements: Python-integrated GMS 3, Numpy, Scipy, Tifffile, Tkinter

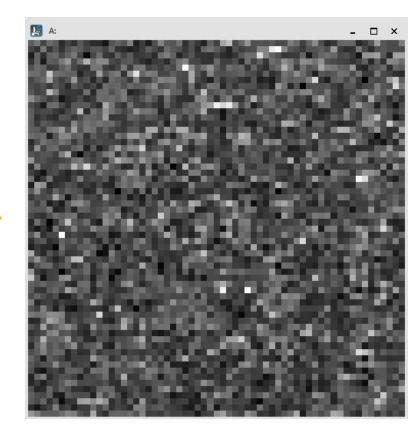
- 1) load 4D-STEM data in GMS 3 (dimensions = (sx, sy, dsx, dsy))
- 2) crop 4D-STEM data for a ROI (optional)
- 3) transform 4D-STEM data into a spectrum image







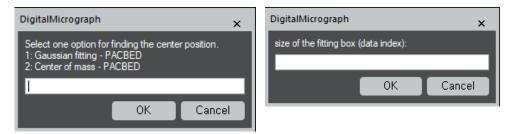
- $sx, sy \rightarrow STEM$ scanning size
- dsx, $dsy \rightarrow diffraction pattern (DP) size$



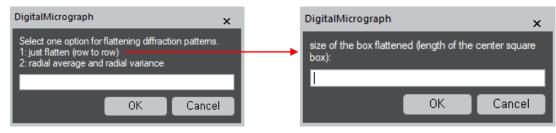
Transformation into a spectrum image

Requirements: Python-integrated GMS 3, Numpy, Scipy, Tifffile, Tkinter

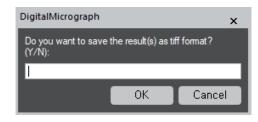
- 1) load 4D-STEM data in GMS 3 (dimensions = (sx, sy, dsx, dsy))
- 2) crop 4D-STEM data for a ROI (optional)
- 3) transform 4D-STEM data into a spectrum image
 - find the center (restrict the fitting region)



- choose a transformation option
 - just flatten (flatten row to row for a specified box)
 - radial average profile and radial variance profile



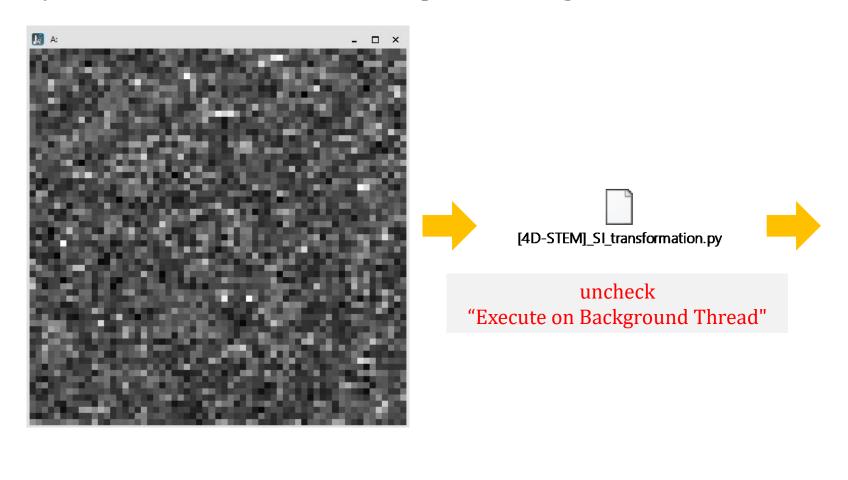
also save the result(s) as tiff format

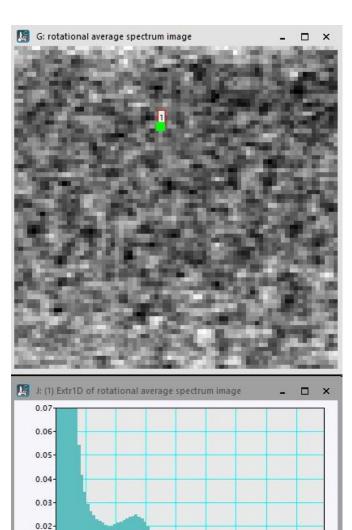


Transformation into a spectrum image

Requirements: Python-integrated GMS 3, Numpy, Scipy, Tifffile, Tkinter

- 1) load 4D-STEM data in GMS 3 (dimensions = (sx, sy, dsx, dsy))
- 2) crop 4D-STEM data for a ROI (optional)
- 3) transform 4D-STEM data into a spectrum image





0.01