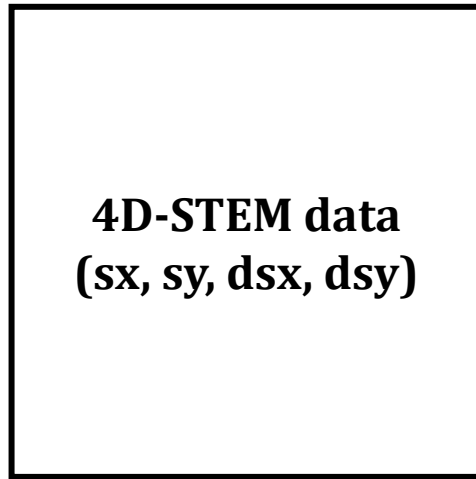


virtual STEM imaging for 4D-STEM data

Requirements: Python-integrated GMS 3, Numpy, Scipy, Matplotlib

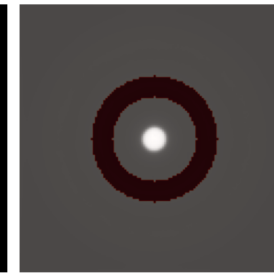
- dimensions of 4D-STEM data = (sx, sy, dsx, dsy)
- sx, sy → STEM scanning size
- dsx, dsy → diffraction pattern size



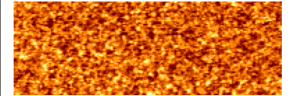
[4D-STEM]_virtual_annular_detector.py



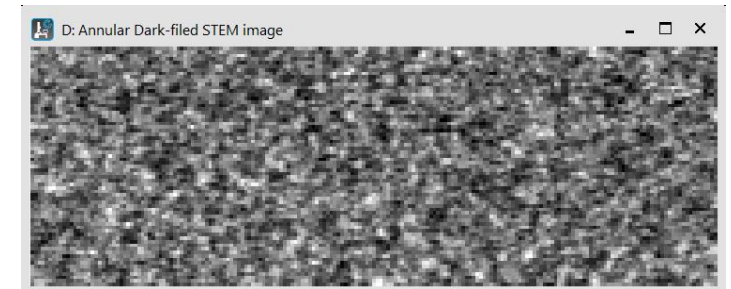
detector



PACBED +
detector



ADF-STEM image
(Python figure)



ADF-STEM image (GMS)

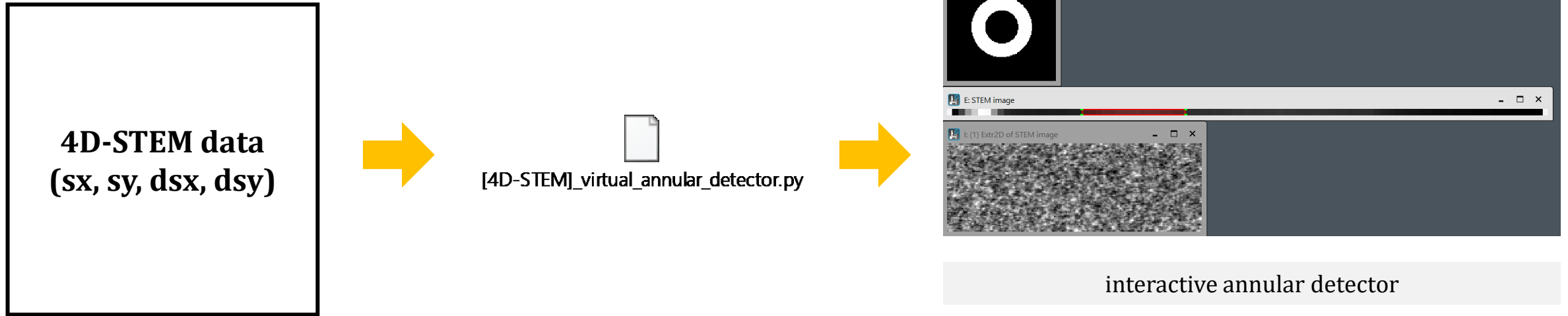
when a detector angle range is specified by the user

- the center position will be calculated or can be specified by the user
- a certain collection angle range can be determined by the user

virtual STEM imaging for 4D-STEM data

Requirements: Python-integrated GMS 3, Numpy, Scipy, Matplotlib

- dimensions of 4D-STEM data = (sx, sy, dsx, dsy)
- sx, sy → STEM scanning size
- dsx, dsy → diffraction pattern size



- the center position will be calculated or can be specified by the user
- a certain collection angle range can be determined by the user