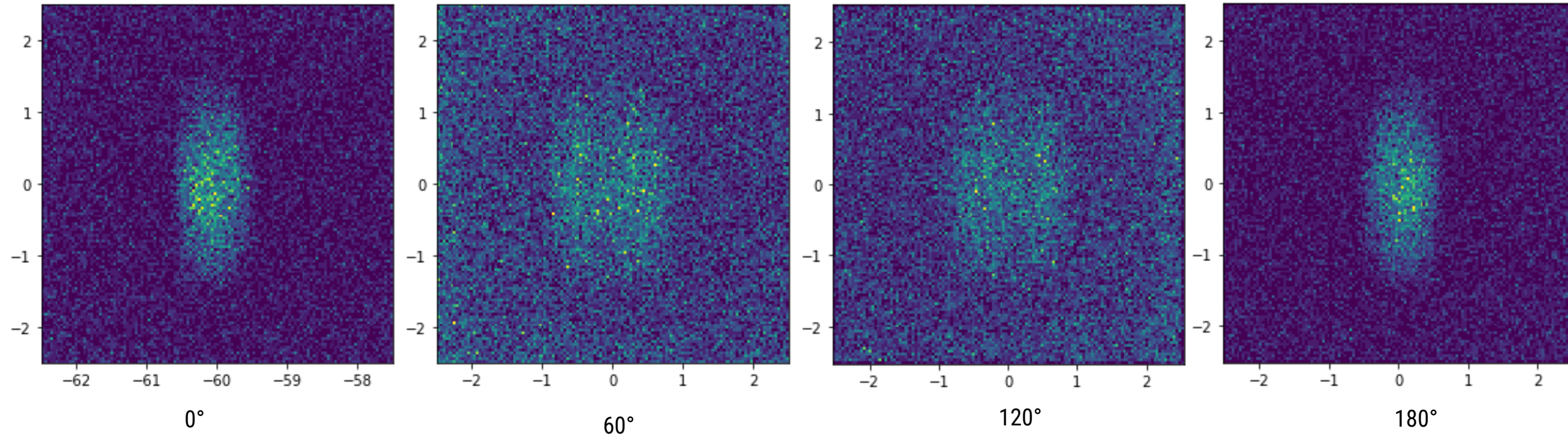
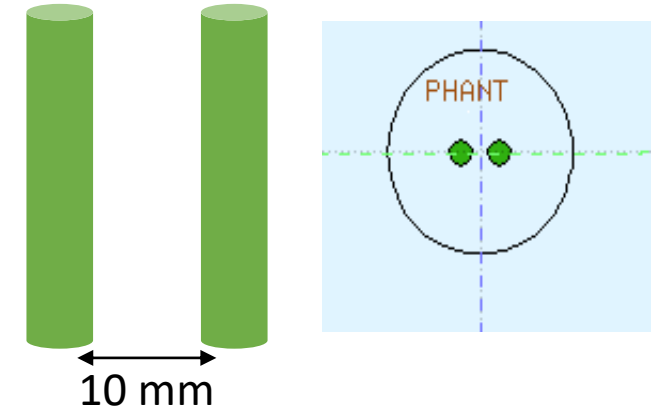


BNCT Tomography learning updates

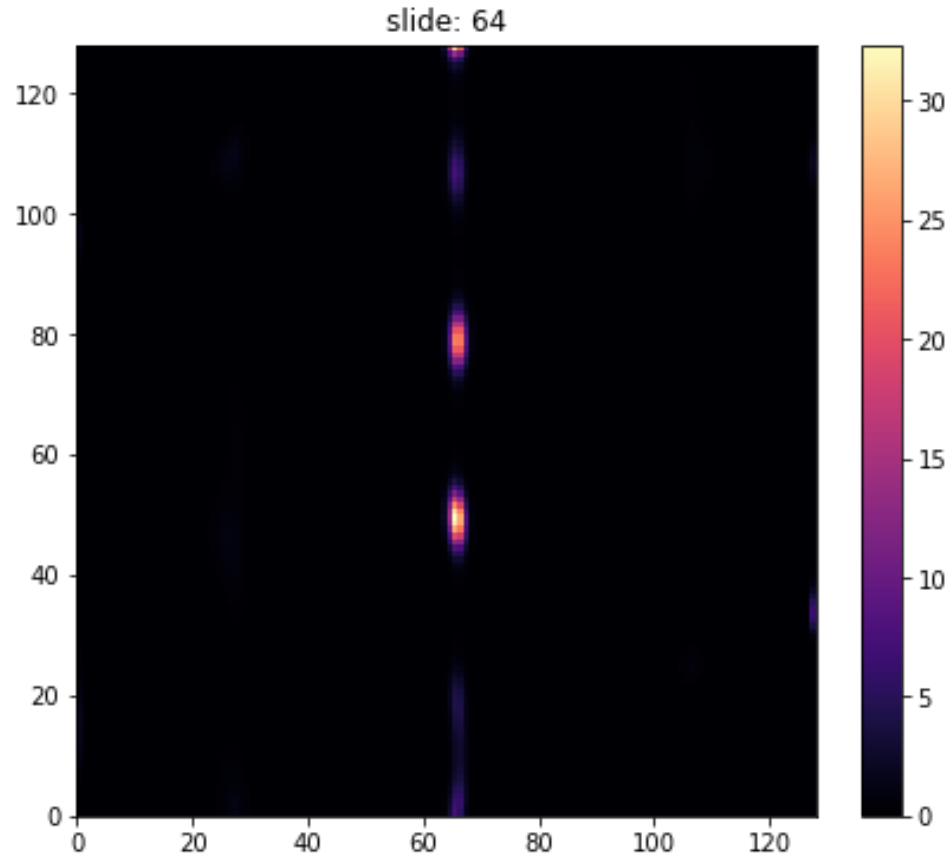
Raw data (simulated)

- 4 projections $0^\circ, 60^\circ, 120^\circ, 180^\circ$ (**Polimi dataset “ideal projections”**)
- Energy range 460 - 485 keV
- Learned how to write this array's (histograms) into dcm file



Dicom file

- Learned to modify dicom file
- Learned and learning the key points in the dicom file such as
 - Number of frames
 - Pixel spacing
 - Detector vector
 - Point spread function



XZ projections of the vials

Vials reconstruction results

- iterations: 300, subsets: 3 by OSEM pytomography
- Pixel spacing: 0.45 mm
- Vials reconstructed with ~ 10 mm distance

