

Update: ODIN and BEER

ODIN

Towards first science

ess

DMSC deliverables

CC:

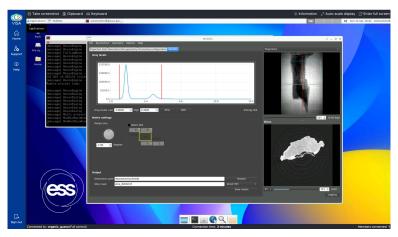
- NICOS, archiving in Nexus files (ECDC)
- For TPX3cam second route through LoskoVision event formation (ECDC)

HC:

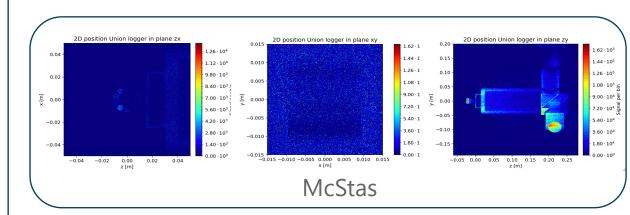
- Data reduction pipelines for att. tomography and Bragg edge analysis, Visualization
- HC package
- Retrieval and Archiving in SciCat

First science:

 Ability to carry out full tomography and bragg edge analysis



Muhrec on VISA platform



Data pipeline status

ess

ODIN

Instrument simulation

McStas ToF simulations of att. tomography & bragg edge data

Data reduction

- Nexus reader includes: ToF, white beam, stroboscopic data. Write McStas data to nexusfile
- (WFM stitching), neutrons to image-stacks (readable by Fiji)
- Masking image regions, image normalization

Data analysis

- Muhrec standalone on VISA, pymuhrec on VISA, Visualization (VGstudio, Dragonfly), PyVista (in Notebooks)
- "easyBragg" Bragg edge fitting tool
- HC package: Detector resolution, beamprofile fits (space & time), Fit chopper settings (if possible)

Data archiving

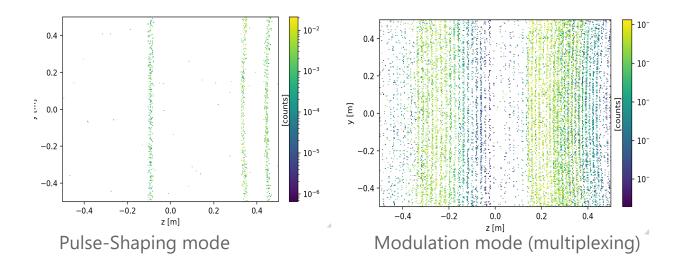
• Archive results from Tomography & Bragg edge analysis in Nexusfile & SciCat

Done
In progress
ToDo

Modalities related to polarized neutrons are not part of day one operation

BEER





- McStas simulations with detectors in +-90 degree positions
- Main objective for BEER is a functioning data reduction method for modultion mode
 - Work is ongoing
- Next, meeting with the BEER Team on DMSC deliverables
- Completion date for DMSC deliverables is currently end of 2025