

# TG5/SAR Meeting

## ODIN

Data visualization / reduction software

DMSC contribution

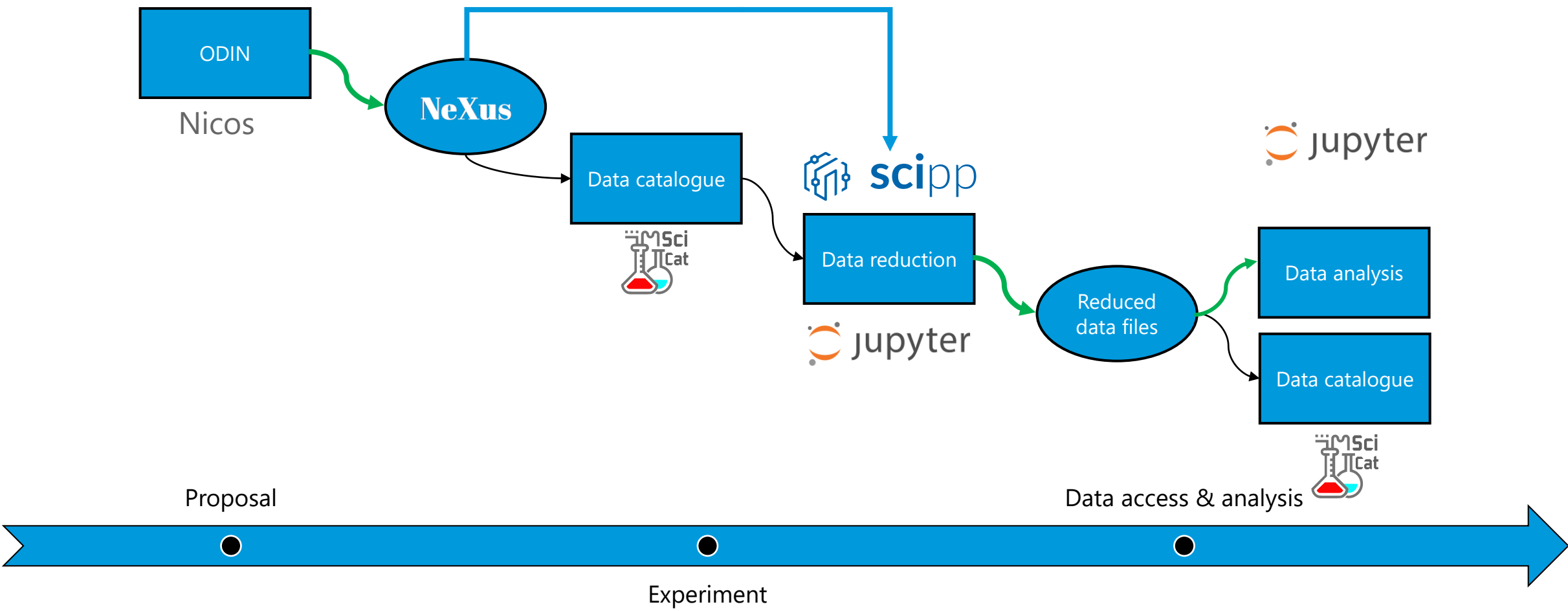


PRESENTED BY SØREN SCHMIDT

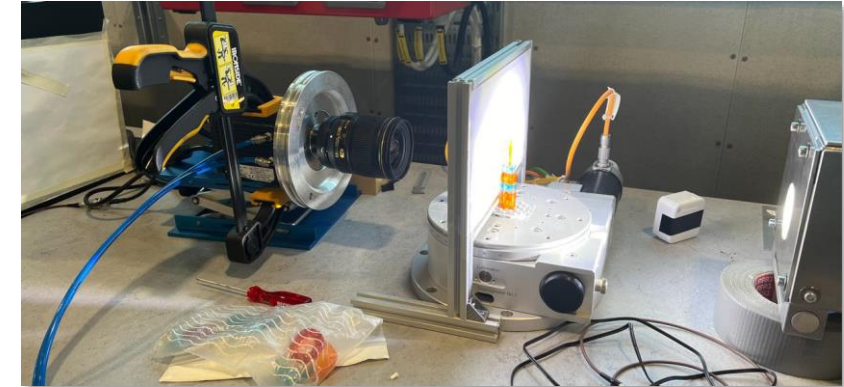
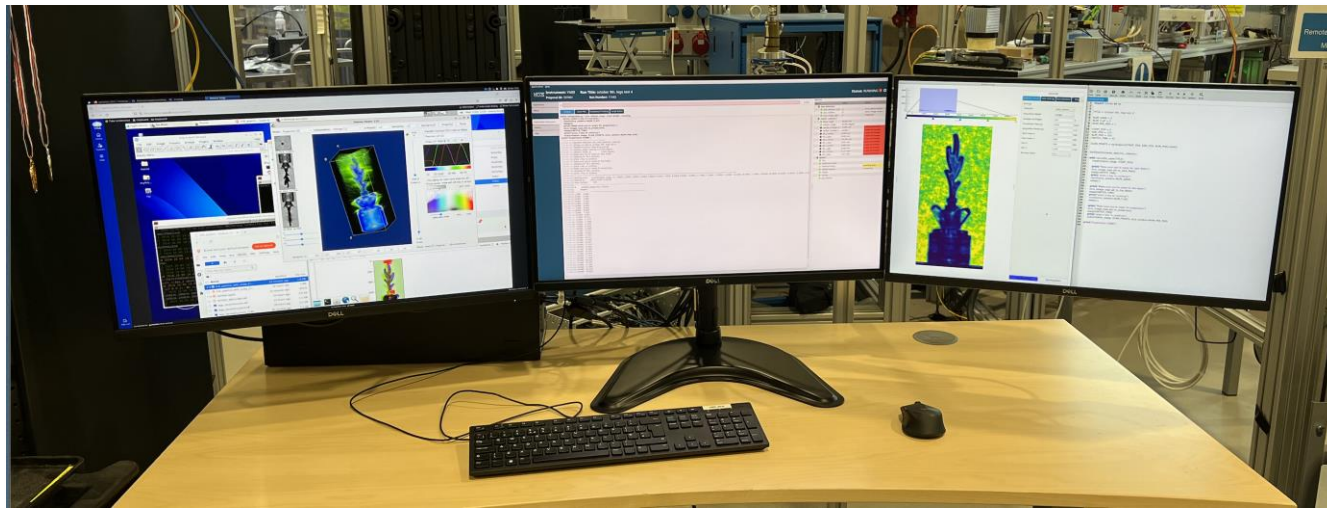
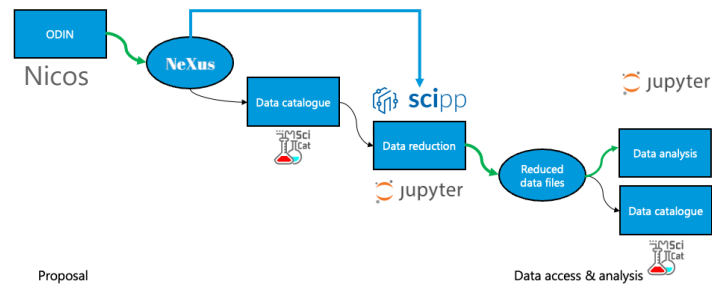
2025-12-17

# Overview

## General data pipeline



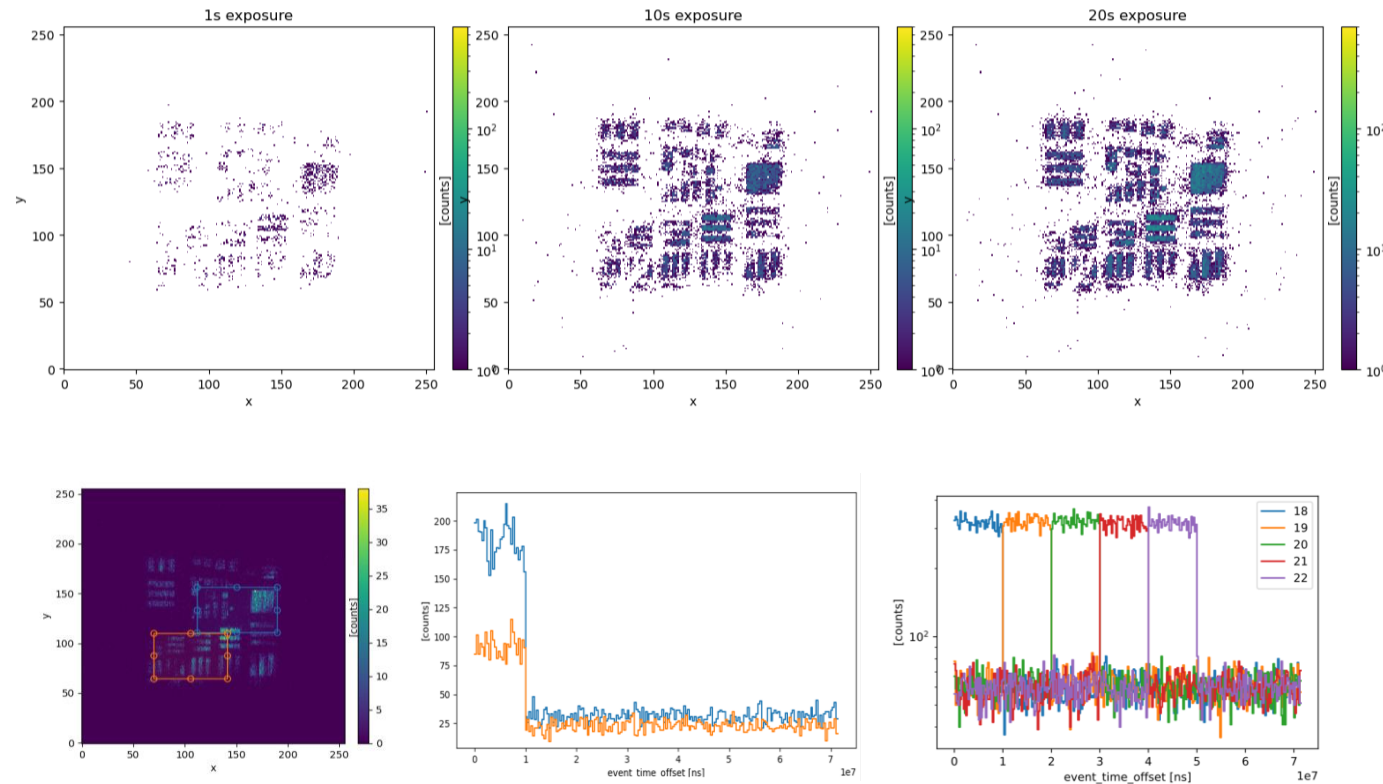
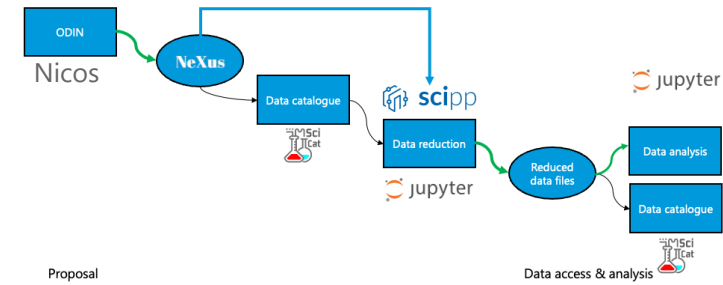
# YMIR – Light Tomography on LEGO, Oct 2024



- Data acquisition at YMIR using ORCA & NICOS: OB, DF & Sample
- Data reduction (scipp) & reconstruction in notebook (pymuhrec bindings) on VISA
- Visualization of reconstruction: Fiji (ImageJ) on VISA
- Raw and derived data archived in SciCat
- Data acquired for both step-by-step and continuous sample rotation (automatically handled by scipp) 3

# Lumacam

## ESS-5849590

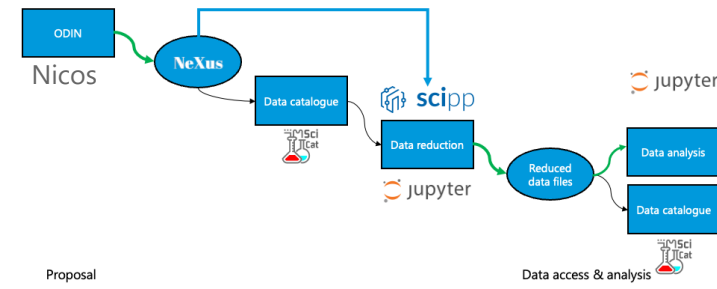


Live View worked with 1s updates

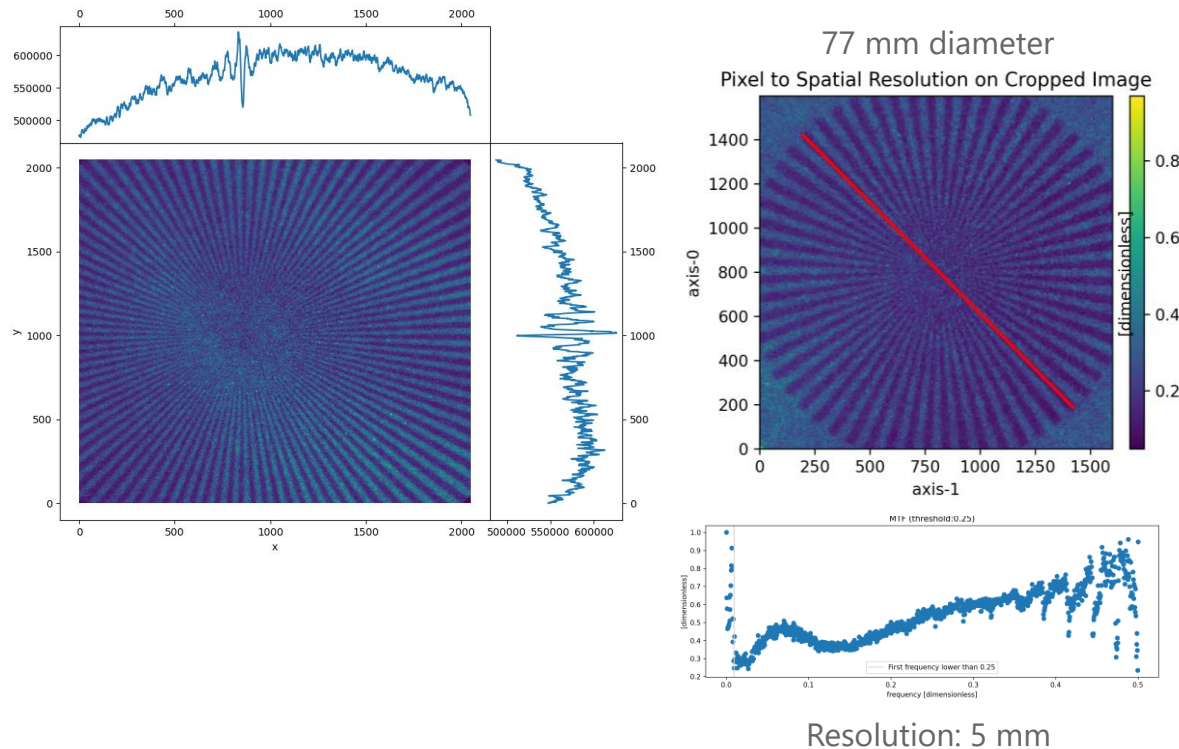
- NIT-501: Allow changing exposure time - resolved
- NIT-502: Normalize with open beam – in progress

# CMOS – ORCA

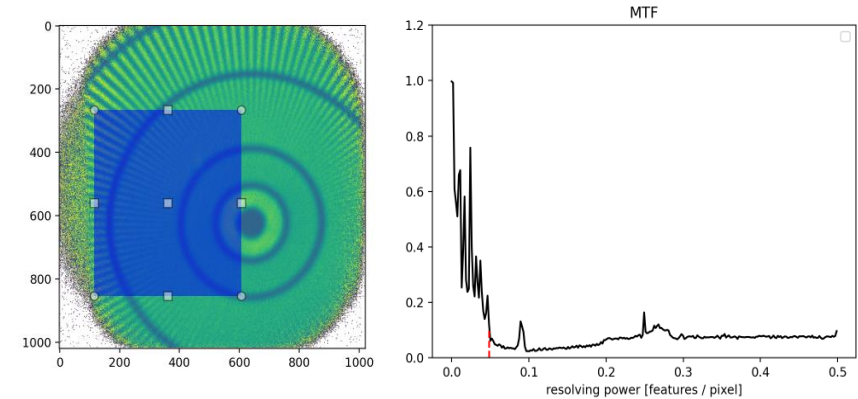
## ESS-5849591



### ODIN



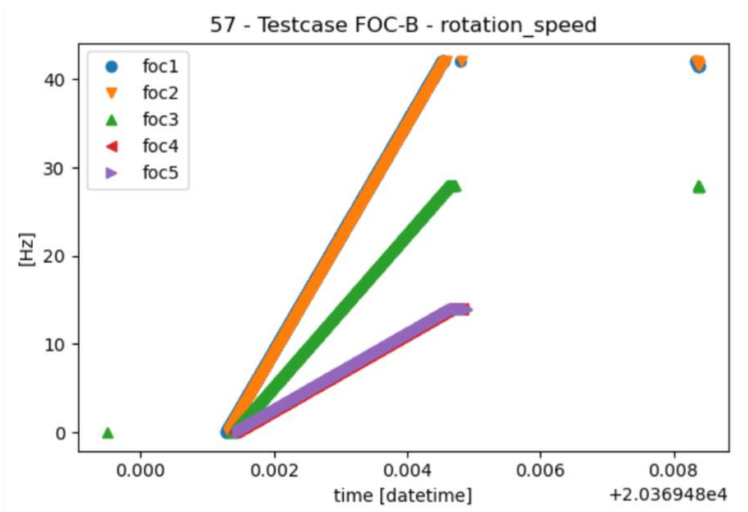
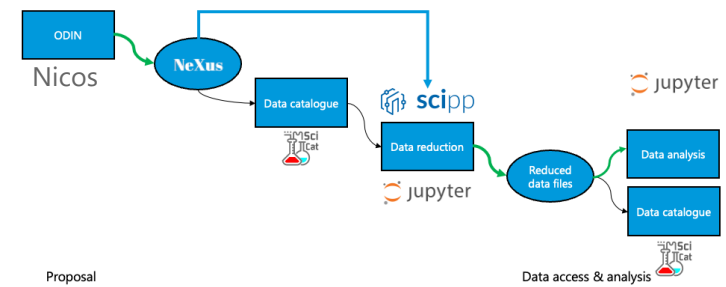
### J-PARC SENJU data



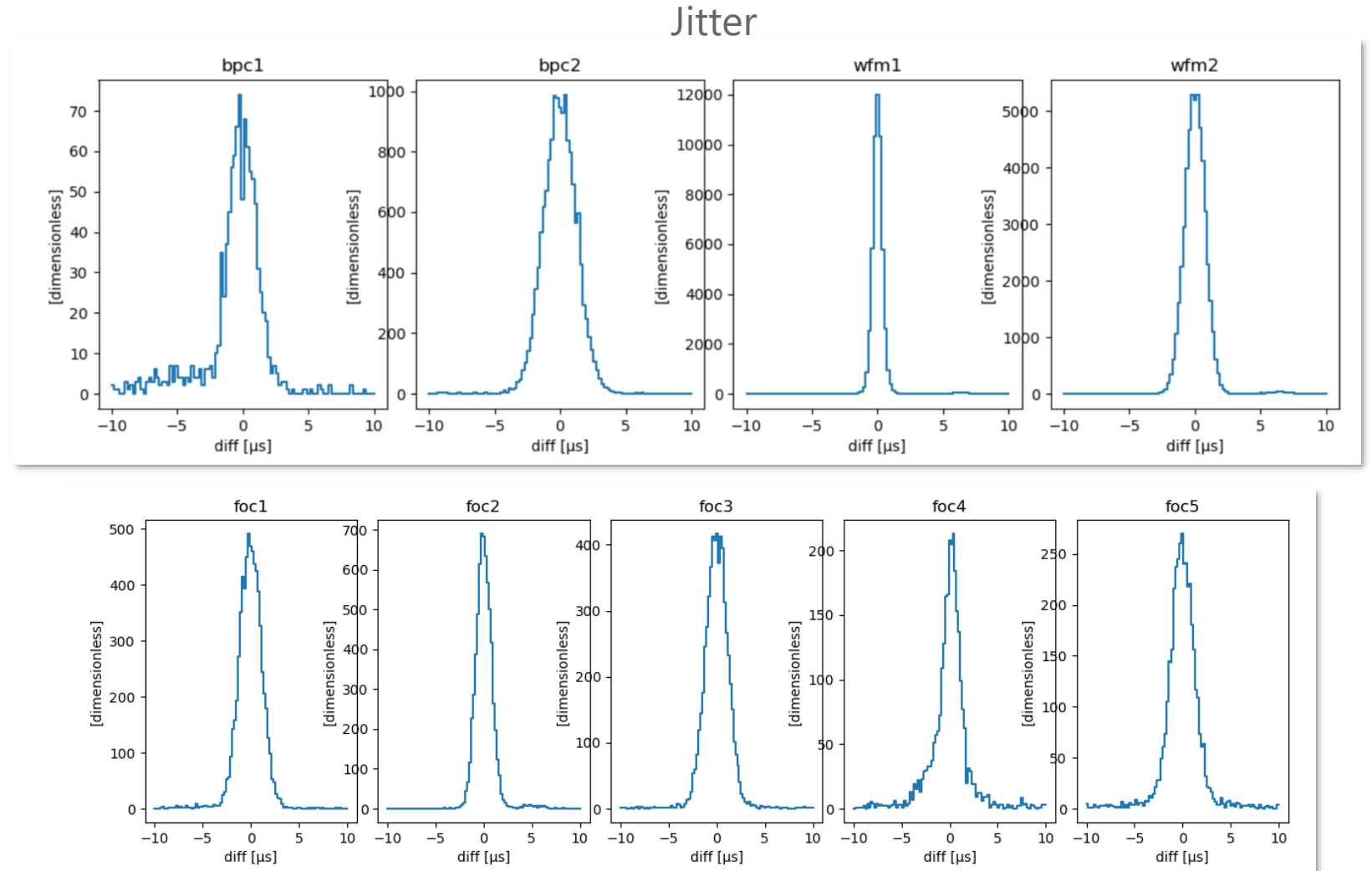
- NIT-558: Live view, intermittent issues - resolved
- NIT-559: Redo resolution with physical siemens star – in progress
- NIT-503: Effective pixel size – decide place for meta data

# ODIN Choppers

ESS-5849588



T0 not yet installed



# ODIN MCA & Beam monitors

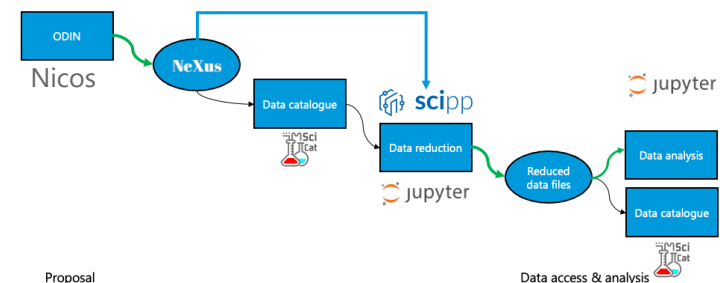
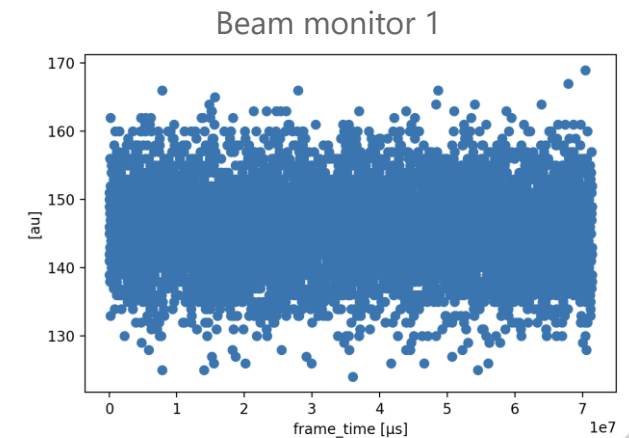
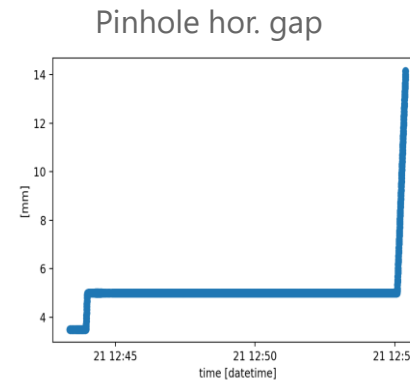
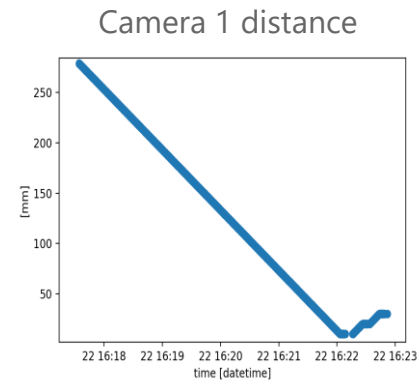
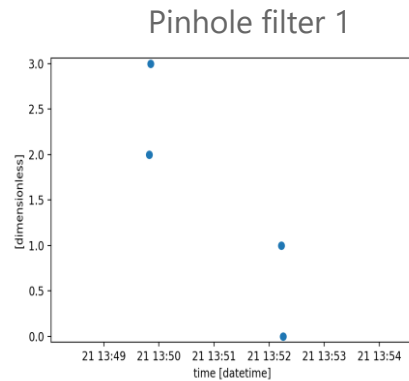
Beam filtering  
system: ESS-  
5849592

Sample & Camera  
Pos. System: ESS-  
5849575

Beam Geometry  
Conditioning: ESS-  
5849593

Beam Monitor:  
ESS-5820250

Examples





# Summary

## ODIN



- Data from detectors (Lumacam & ORCA), Choppers, MCA and Beam monitors were successfully tested and could be controlled from NICOS
- Uploading derived data to ScicCat worked
- Identified 5 NITs to be completed by TG6 (two have been resolved)





Thank you for your attention!

2025-12-17