MXCuBE 3 at the Brazilian Synchrotron Light Laboratory – LNLS/Sirius Status Report

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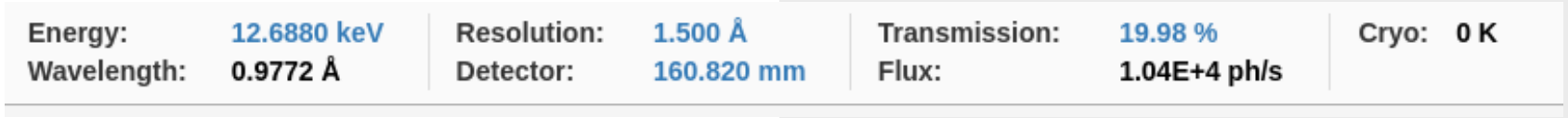
Computing Platforms (COMP)
MXCuBE Meeting – ALBA, 29 Nov 2023

Sirius Beamlines - Orion

- Hibisco (Designing)
- Timbó (Designing)
- Sibipiruna (Designing)
- BSL-03 e BSL-04 research stations with synchrotron light techniques

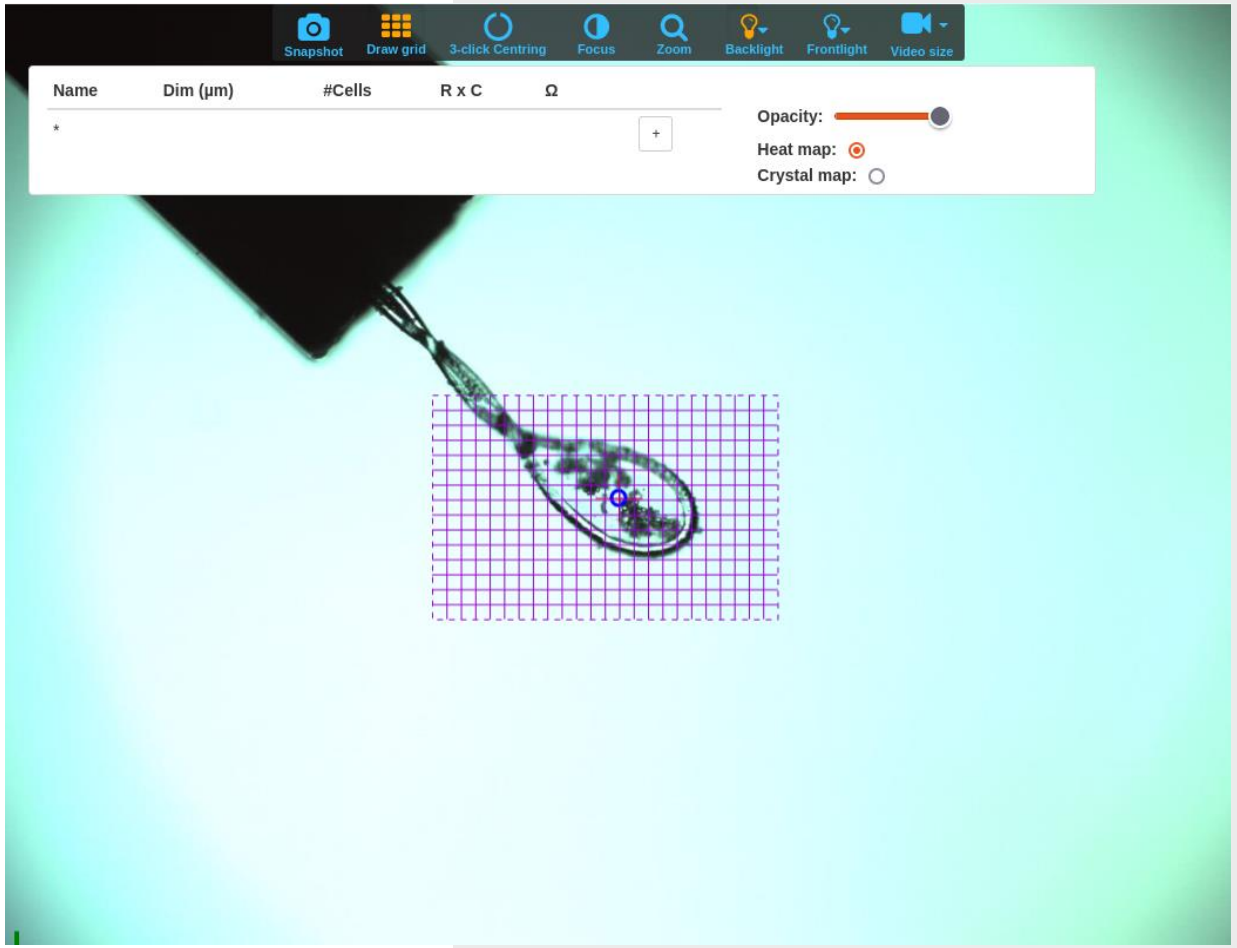


What was done

- Finish LNLS EPICS class for flux
- Update and maintenance of our MXCuBE container
- Add workaround for usage with industrial proposals
- Fix bug in observer mode and take control by users in house

Work in progress

- Investigation of bug in Grid Scan
- Improvements in scan procedures
  - Bluesky/Ophyd integration
- Try to add the Cryo class, but bugs occurred
- Insert automatic X-ray alignment script
- Change energy from MXCuBE
- Tests using the MXCuBE 4



To-do list

- Finish LNLS EPICS class cryo
- Update the mxcubecore
- Update to MXCuBE 4 gradually

Thank you all!

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LNLS + sirius

CNPEM
Brazilian Center for Research in Energy and Materials

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