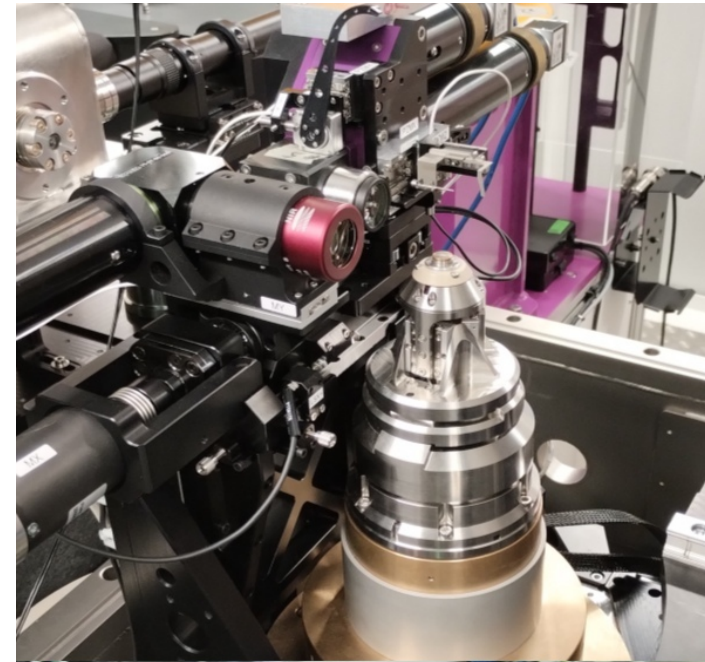# MXCuBE
site report

ALBA Synchrotron

ALBA beamlines summary

- BL13 – XALOC
  - High-throughput tunable beamline
  - Arinax MiniDiff MD2M; Dectris Pilatus 3X 6M; IRELEC ISARA^2 sample-changer robot

- BL06 – XAIRA
  - Microfocus beamline, Helium-chamber endstation
  - In-house diffractometer (Aerotech+Smaract); Dectris Eiger 9M; IRELEC ISARA^2 s.c. robot

- Controls software stack:
  - TANGO and Sardana, Taurus GUIs
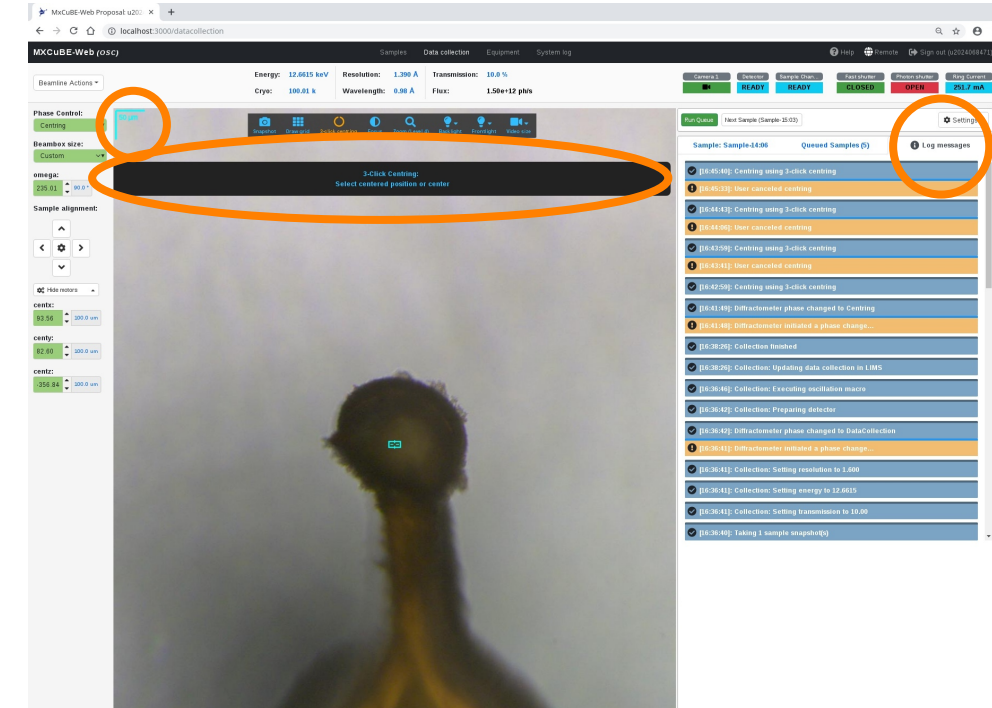 - LImA for cameras and detectors

MXCuBE status

- BL13 – XALOC
  - MXCuBE Qt: Python 3.9, Qt5 (with ISPyB)
    - "Somewhat" diverged from community code
- BL06 – XAIRA
  - MXCuBE Web: backend v1.45.0, frontend v1.113.0 (with ICAT)
    - Outdated but working, and being maintained
- Cybersecurity
  - Handled by our IT Systems department
  - Access method: NoMachine, with proposal login

Developments since last meeting

- BL13 – XALOC
  - Software "maintenance" to keep up with hardware changes and libraries updates
- BL06 – XAIRA
  - Characterization, Helical, X-ray centring
  - Better integration with ISARA[2] and ICAT
  - UI adaptations due to vertical viewport

Plans for the next six months

- BL13 – XALOC
  - Restart effort on the stalled update to MXCuBE Web

- BL06 – XAIRA
  - *(debug)* X-ray centring
  - *(improve)* ICAT integration
  - Upgrade to latest community version
  - Implement optical loop-centring