



Elettra
Sincrotrone
Trieste

ISPyB/MXCuBE Meeting 30.01.2018

Updates and Status Reports form
Members [and apprentices]

MXCuBE status at ELETTRA



MX Facilities at ELETTRA

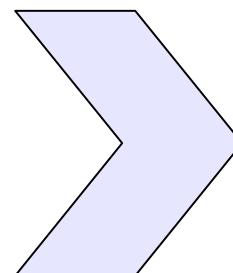
XRD1 - a general-purpose hard X-rays beamline
(50 % for MX)
Since 1997

XRD2 - dedicated to MX
(Elettra – IISc joint project)
Since 2017

Small Crystallization Lab (2 hotels, 570 SBS plates, Explora Nova) remotely accessible

50% of future users from India:

Sample logistics
Capability of Data [re]processing
Web-based data collection



MXCuBE 3
ISPyB

XRD2 status and features



- SCW as a source, 10^{12} ph/sec - Commissioning phase
- Well-known instrumentation (MD2s, Pilatus 6M)
- SC with 12 slots for UNIPUCK or ESRF-like pucks, still to be integrated (tango device missing)
- SBS Crystallization plates screening (to be tested)

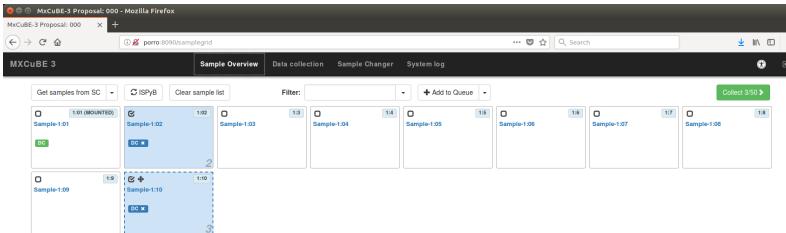
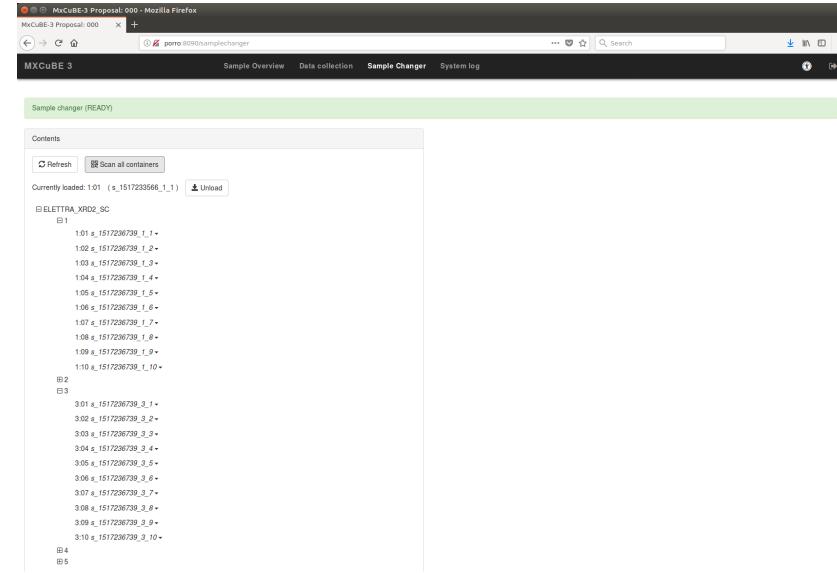
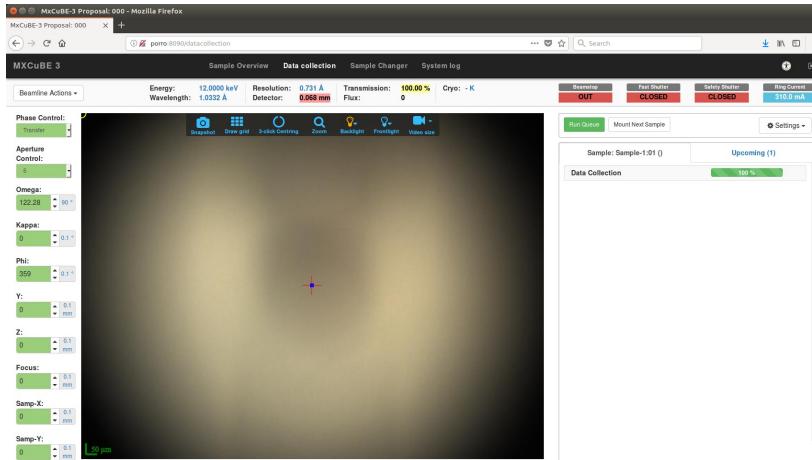
MXCuBE 3 installation

MxCube3 current status:

- **Login :**
 - still **mockup** with test proposal;
- **Data Collection Tab:**
 - Machine Status: controlled via **Tango**
 - Beamline Valves and shutters: controlled via **Tango**
 - Detector Distance: controlled via **Tango**
 - Beamline Actions: still **mockup**
 - Energy, Wavelength, Resolution, Transmission, Cryo, Flux: still **mockup**
 - Diffractomer (MD2):
 - Motors: controlled via **Tango**
 - Phase Control: still **mockup**
 - Aperture Control: still **mockup**
 - Lights: controlled via **Tango**
 - Zoom: controlled via **Tango**
 - Camera: using MD2 JPG via **Tango**
 - 3 Click centring: using MD2 command via **Tango**
 - Automatic centring: **not** yet implemented
- **Sample Changer Tab:**
 - XRD2 sample changer under test
 - **created** SampleChangerElettra Hardware Object for simulation
- **Sample Overview Tab:**
 - ISPyB: **not** yet installed
 - Tab content **correctly** synchronized with SampleChanger Tab Info
 - Implemented only Data Collection Task
 - MultiCollectTangoMD2 hw object **communicates** with MD2 and Pilatus Tango devices
 - First tests of **queued** data collections



MXCuBE 3 installation



Installation Environment:

S.O. CentOS7 x64
Python 2.7
Web Interface



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Resources

Beamlines



Software





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Thank you!



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