

Status of MXCuBE Beamline Control at BESSY II

Alexandra Kastner,
on behalf of the HZB MX group

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ALBA Synchrotron



Status of MX Beamlines at HZB

- Currently long shutdown from 26. October - 3. January
- All work focused on Beamline 14.2
- Beamline 14.2 "Go-life" planned after shutdown

One week of intense work together with Vicente from 8. - 12. June

Solved / improved:

- communication issue between MD2 and Hardware Object
- handling of MD2 motors and sample centering
- chained load for sample changer
- automatic display/refresh of sample list (Tree Brick)

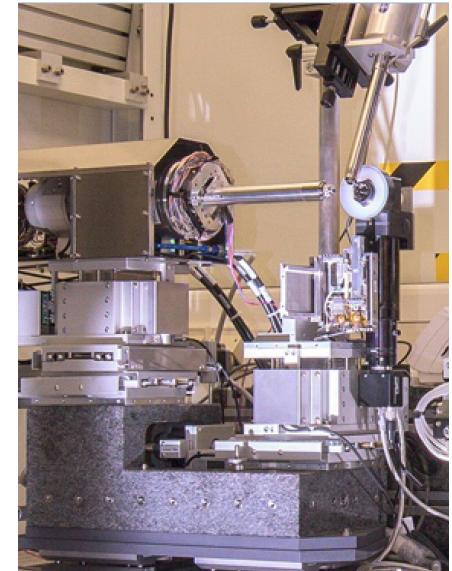
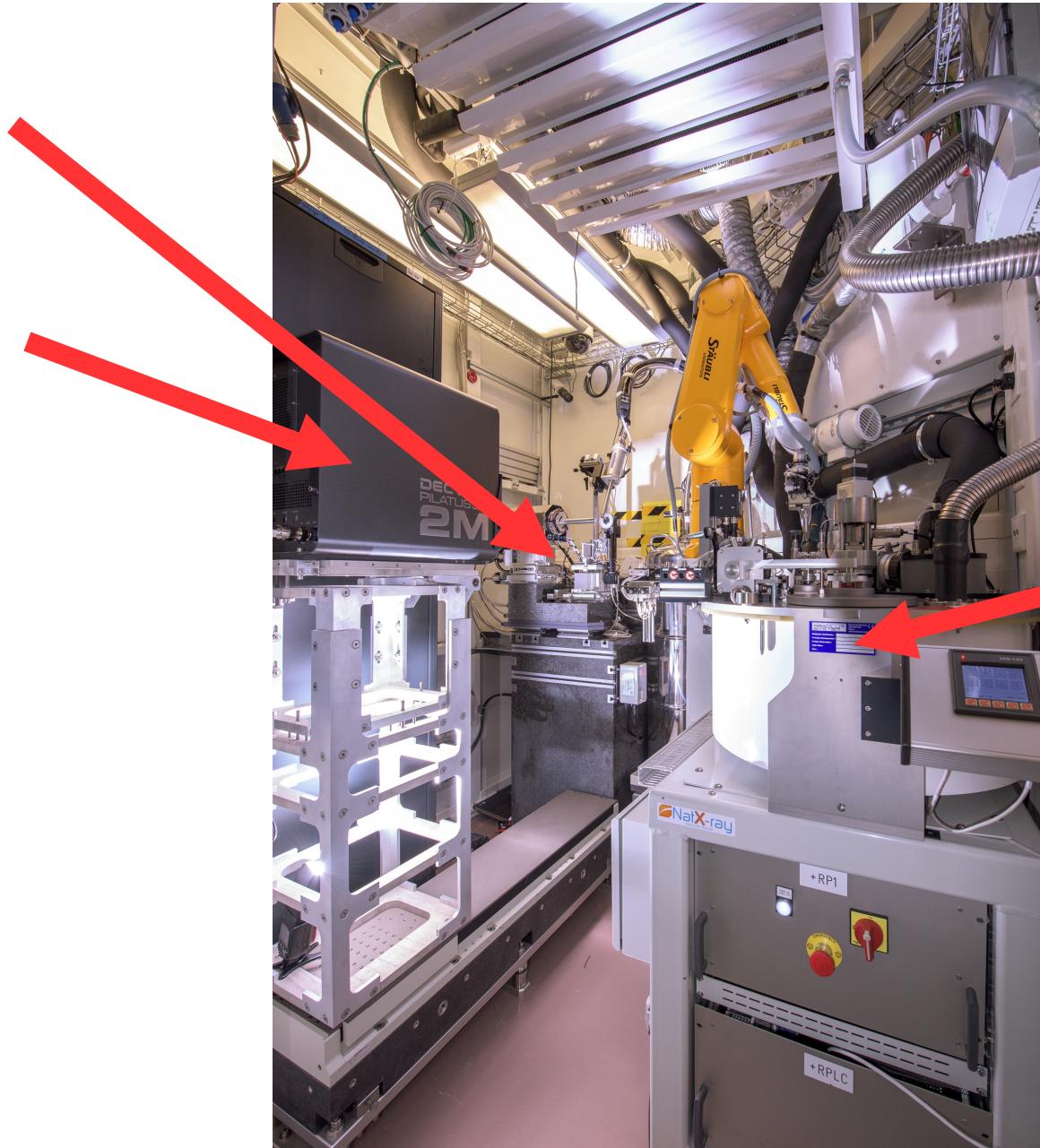
- changed OS from Scientific Linux to Debian 7
- issues in signal interaction
- still not yet in user operation

Major problem:

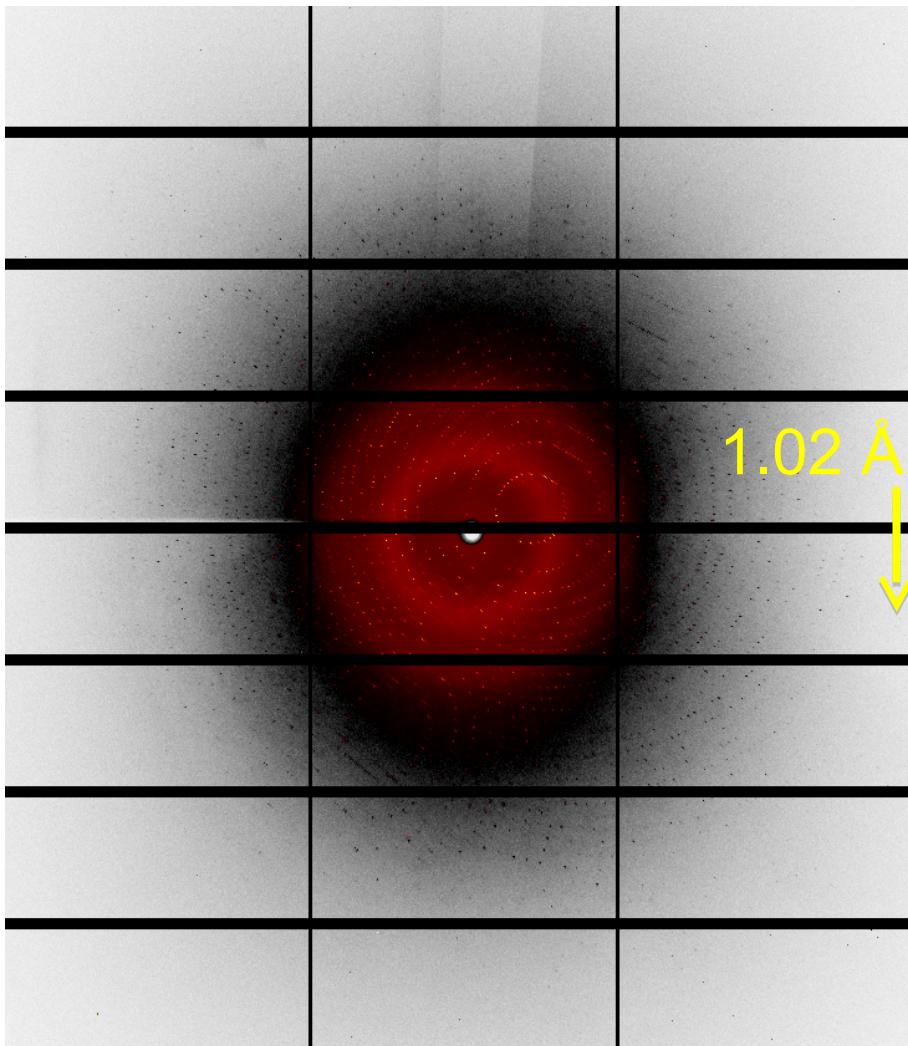
Booking situation on BL 14.1 due to BL 14.2 upgrade

No shifts for development

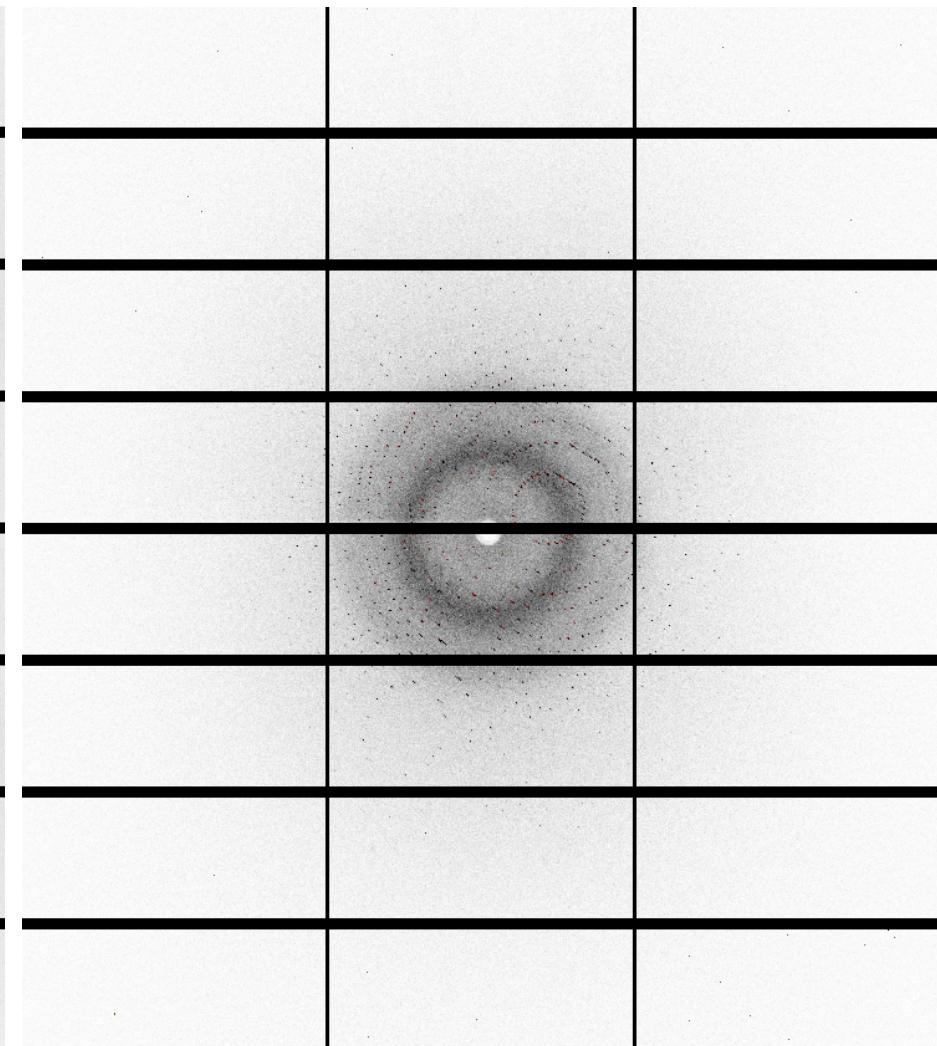
Beamline 14.2 upgrade



First light at BL 14.2, 2015-10-23

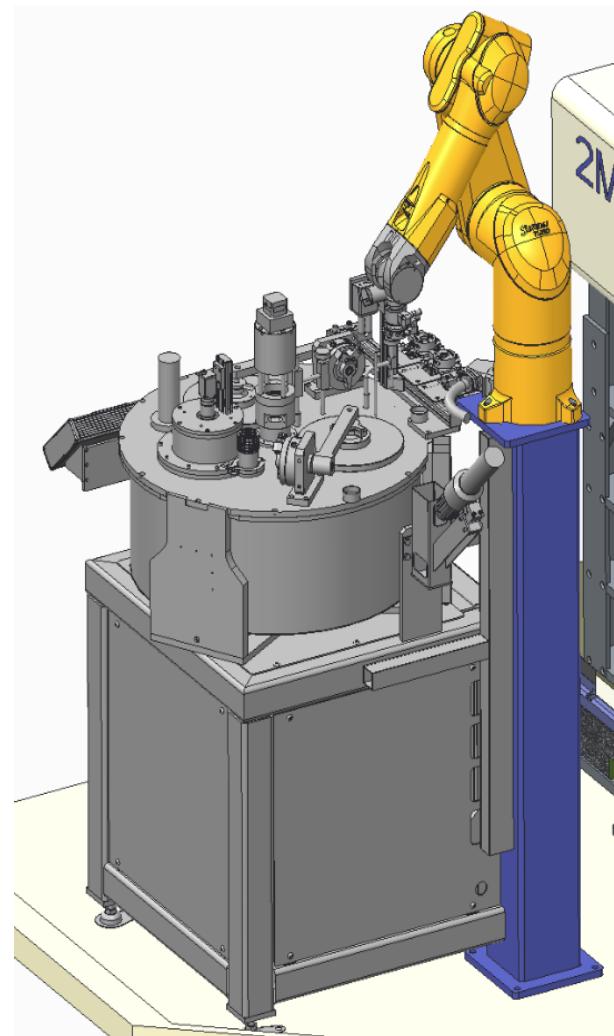


Pilatus3 2M, 1000 micron sensor thickness
Thaumatin still image, 5s exposure

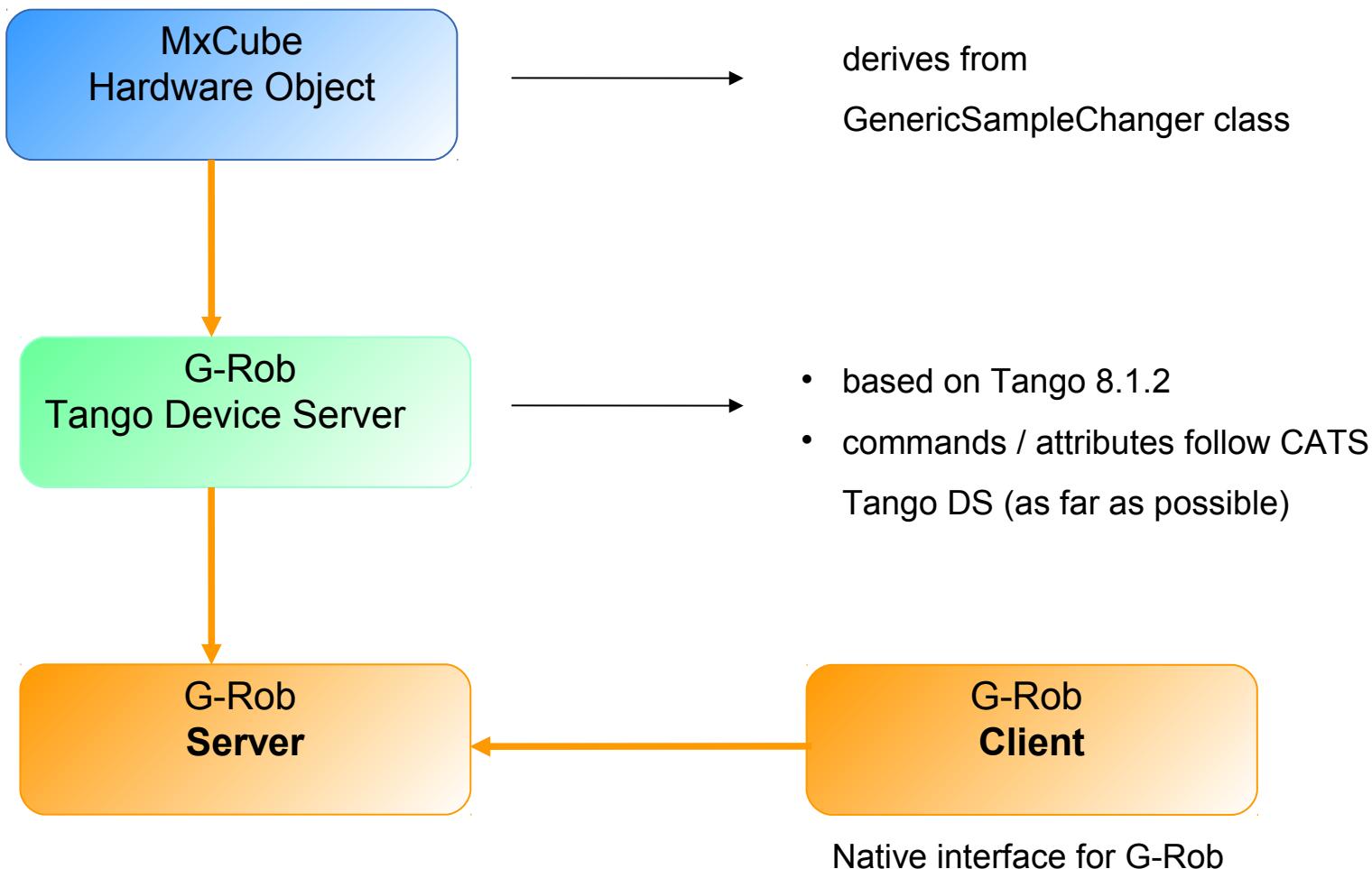


Pilatus3 2M, 1000 micron sensor thickness
Thaumatin still image, 0.1s exposure

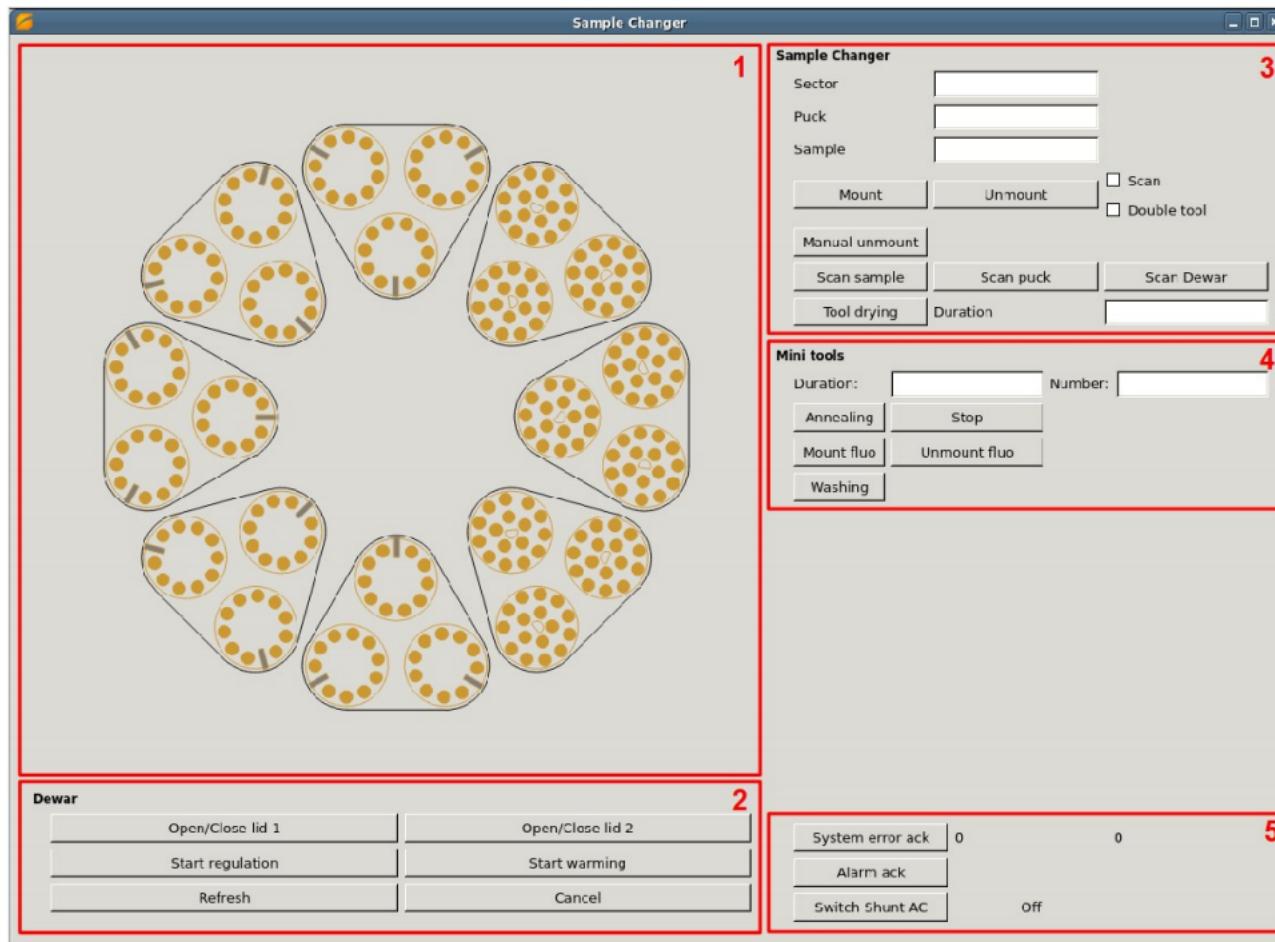
- G-Rob Server / Client
- rotating dewar (Absolute System)
- Unipuck and SPINE
- Gripper:
 - SPINE
 - single Unipuck
 - double Unipuck
- Tango DS
- MxCube HWO



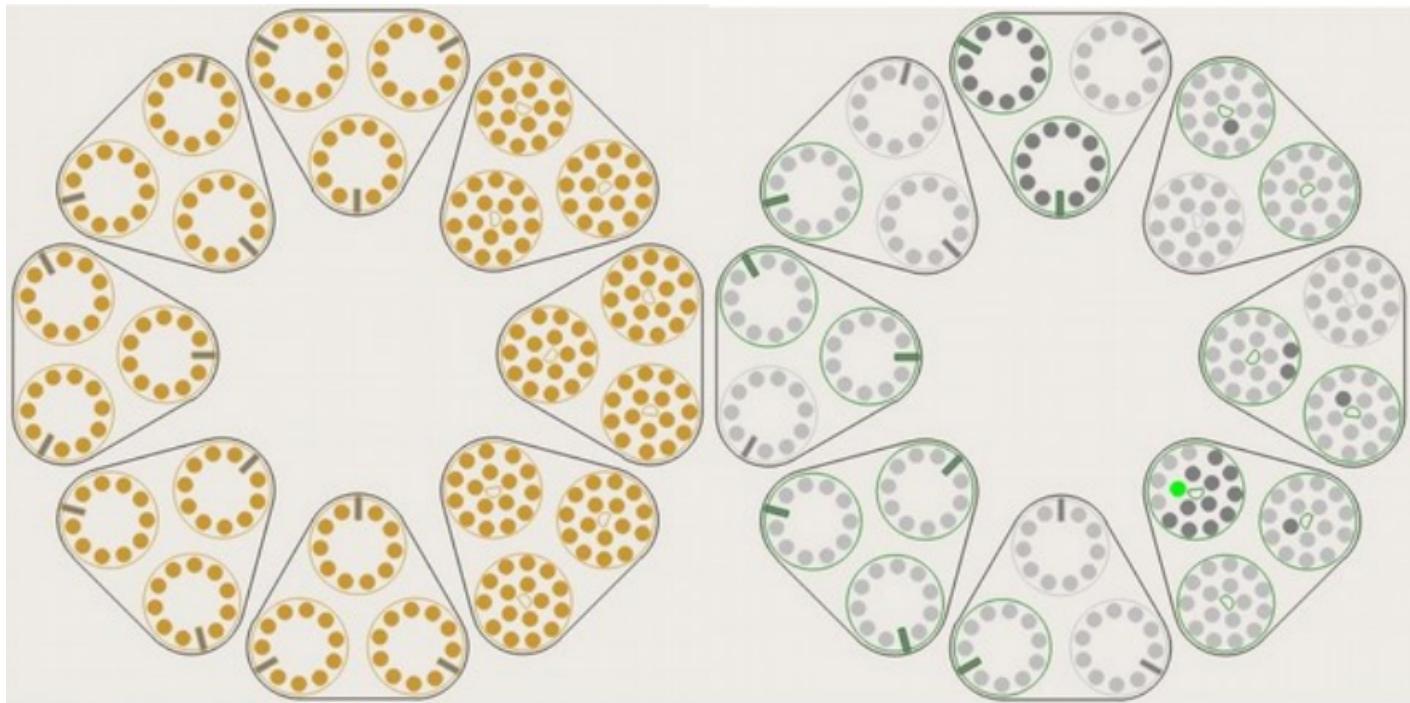
G-Rob System, Tango DS and Hardware Object



G-Rob client interface



G-Rob client interface



- MxCubeV2 at Beamline 14.1 in user operation
- Integration of Nanodiff components as Hardware Objects
- MxCubeV2 at Beamline 14.2 in user operation
- Test MxCubeV2 with Qt4