

Status of Beamline P11

What is going on (in terms of MXCuBE)

Jan Meyer
13th MXCuBE Meeting
Elettra, Trieste, 11.09.2018



Personnel

Status of Beamline P11

Current Staff

- **Olga Lorbeer**
(deputy manager, user support)
- **Eva Crosas**
(scientist, user support)
- **Sebastian Günther**
(scientist, user support)
- **Bernd Reime**
(engineer, mechanics and electronics)
- **Jan Meyer**
(engineer, software, controls and electronics)

Changes

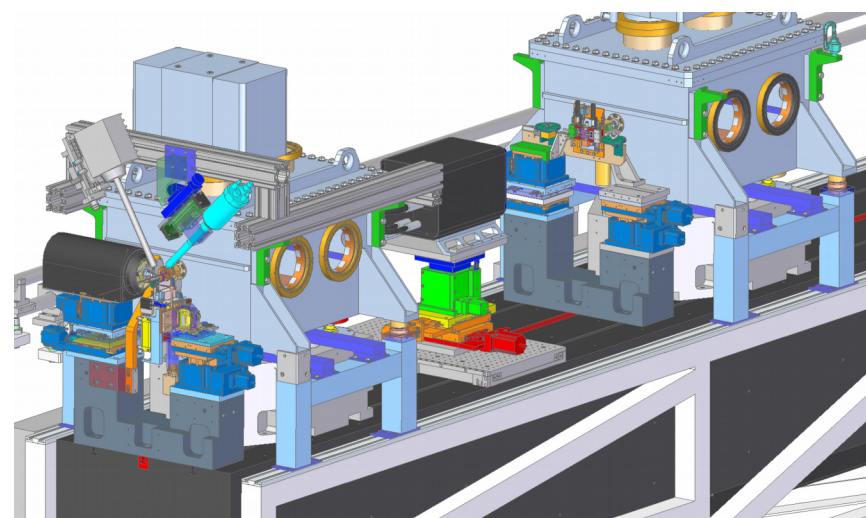
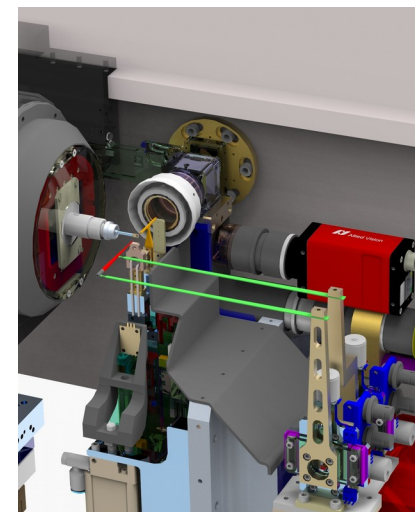
- **Anja Burkhardt**
in maternity leave since Q2/2018, presumably back in Q1/2019
- **Saravanan Panneerselvam**
left for EMBL in Q4/2017
- **Eva Crosas and Sebastian Günther**
joined P11 in Q3/2017
- **Pavel Paulau**
joined P11 in Q1/2018 and left again in Q3/2018
- **Jakob Urbschat**
will take over in Q4/2018

The collaboration with Alke Meents group continues.

Hardware

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- 3rd endstation for serial crystallography. KB-Tank will be installed in October.
- Eiger2 X 16M is ordered. No fixed delivery date yet.
- Capillary beamstop is frequently used already and will become part of our standard endstation.
- Newly developed microscope and backlight.
- A complete overhaul of our endstation is contemplated. Possibly parts of the Roadrunner design could be integrated.

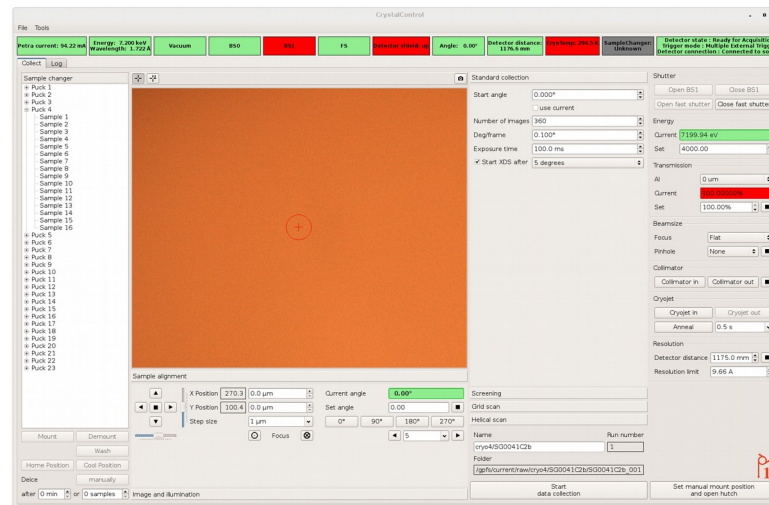


Software

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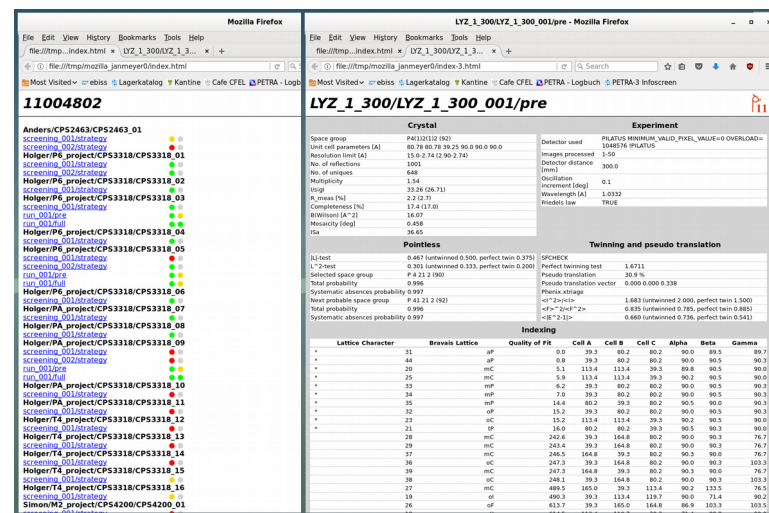
CrystalControl

- New GUI, Layout inspired by MXCuBE.
- Sample changer handling was integrated.
- Helical scan was implemented.



Presenterd

- Daemon writing HTML result representation files into the data folder.
- Works with XDSAPP and mosflm.
- Dataset index is self refreshing.



MXCuBE / Outlook

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Sardana

- Pavel wrote a Sardana macro which performs a standard data acquisition and is meant to be called by MXCuBE.
- Essentially no Sardana features used - pure PyTango script.

PMAC

- Possibly switch to Delta Tau's PMAC controllers.
- Idea would be, to mimic the MD2 API inside the controller.

Pros and Cons

- a lot of overhead
- organisationally complicated
- much to learn
- + CLI option
- + homogeneous with other beamlines

Pros and Cons

- not all components connected
- also not easy to learn
- interfacing Tango is complicated
- + better performance (hardware sync)
- + synergies with Alkes group

Thank you

Contact

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