## **Software Environment Status on DESY Beamline P11**

mxCuBE, Crystallography Control & Co.

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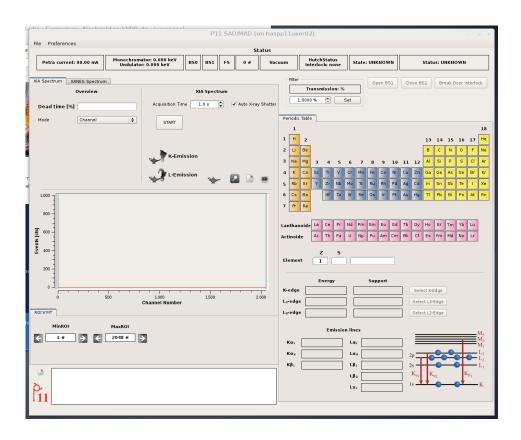
## **Environment**

- > Automated sample changer deicing during the measurement
  - Depending on time and / or number of mounted samples
- Exchanged the motor controllers
  - Aerotech for the goniometer speeds up and makes axis syncronisation easier
  - Galil DMC for the piezolegs improved position stability < +-20nm</li>
- > Data flow changed
  - NFS and ZMQ instead of Furka and Isyncd
  - Live view with virtually no latency
- Cryojet remote control



## **Energy change**

- Fully automated energy change
  - Implemented as Tango DS
  - 1st mode lookup table based direct change (4 – 30KeV)
  - 2nd mode incremental, only within same harmonic, coating etc.
- New SAD/MAD scan tool, featuring continuous scans





## **MxCuBE**

- Updated mockup to current master
- Set up an own configuration
- > First tests displaying real values
- > Plans to set up MxCuBE in a Sardanaish style
  - Actions as macros
  - Motors, Pseudomotors,
    ZeroDChannels, IORegisters,
    etc.

