

# MXCuBE site report

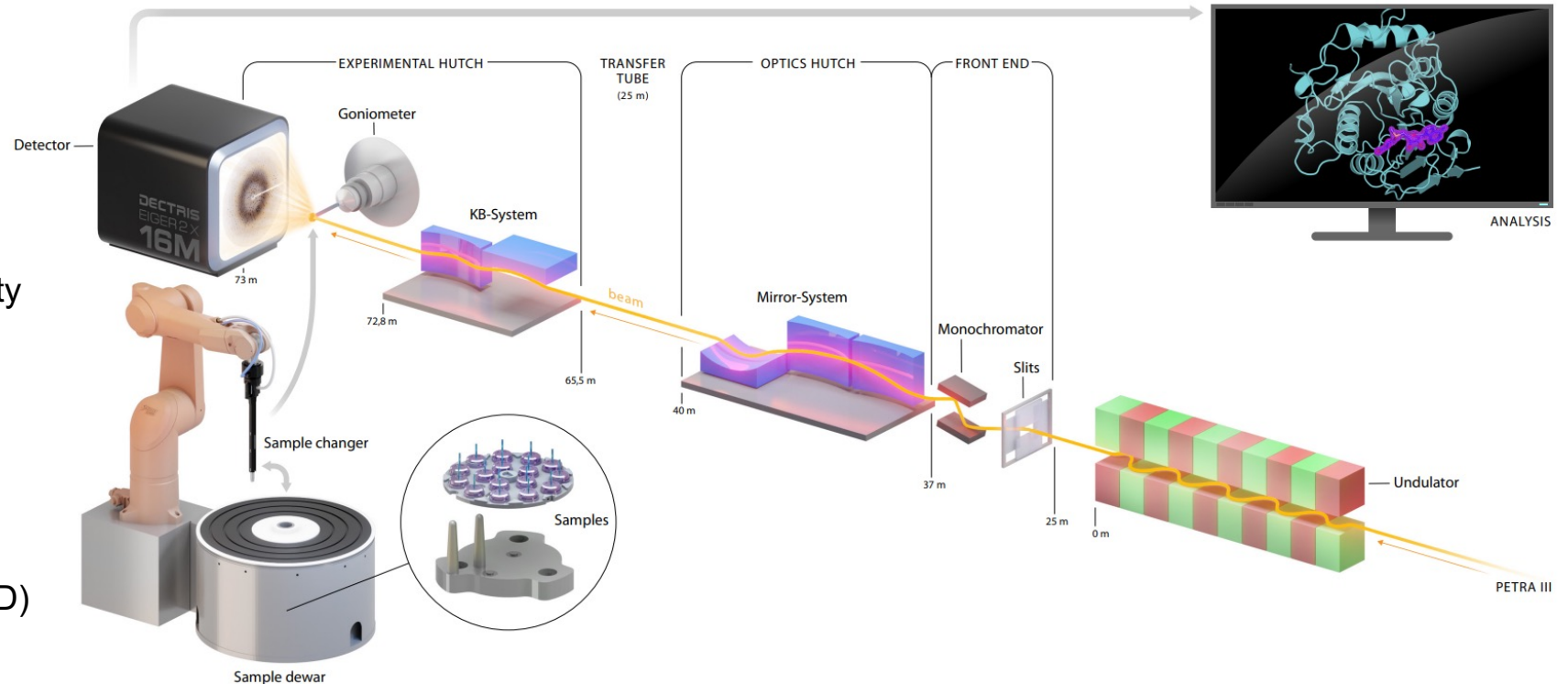
P11, DESY (Hamburg, Germany)

# Brief beamlines summary

## The High-throughput Macromolecular Crystallography Beamline P11

### Crystallography Experiments

- In user operation since 2013
- Broad energy range: 5.5 - 28 keV
- High-speed sample changer with capacity (23 unipucks = 368 samples)
- High precision single axis goniometer:  $0.0001^\circ$  at  $120^\circ/\text{s}$
- Eiger2 X 16M
- XRF for experimental phasing (SAD/MAD) and element analysis



# MXCuBE status

- Latest mxcubeqt (develop branch),
- Latest mxcubeqcore **1.104.0** (develop branch)
- Python 3.8.9, PyQt 5.15.10
- Cybersecurity: mxcubeqt is running on a separate VM (Kiosk mode), TFA

# Developments since last meeting

- Finished moving to the latest development branch (core, qt)
- Live view as an ADXV-based executable (Eiger monitoring interface)
- Automated optical centering can now be done with *murko* (M. Savko) – PR#932

# Plans for the next six months

- EDNA-Characterization + processing
- Code cleanup
- Roll-out to the users
- Interaction with ISPyB
- X-Ray centering + mesh-scans
- Move installation to Debian 12
- Optimize usage of *murko*-centering
- Aligning temporary *murko* setup with local IT infrastructure