15A Beamline Status in TPS

2022.05.17 Liao Bo-Yi, NSRRC

Agenda

15A Beamline in Taiwan Photon Source (TPS)

TPS 15A Hardware Status
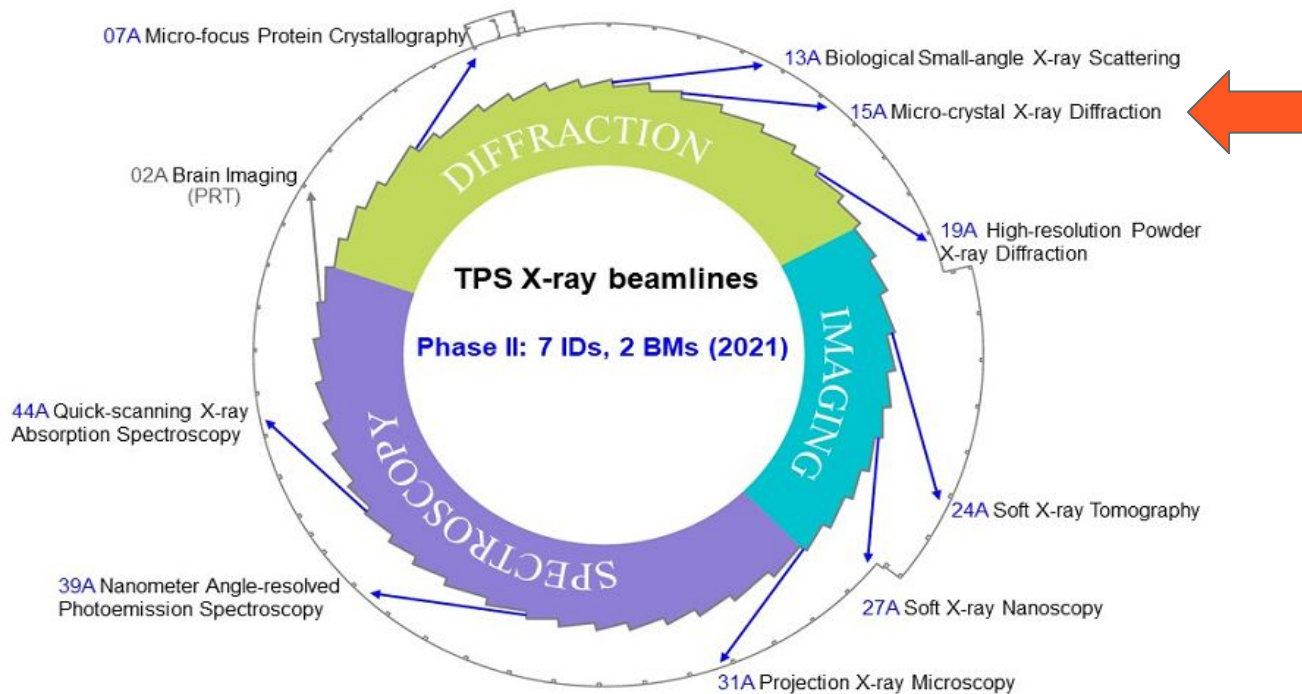
TPS 15A Software Status

Acknowledgement

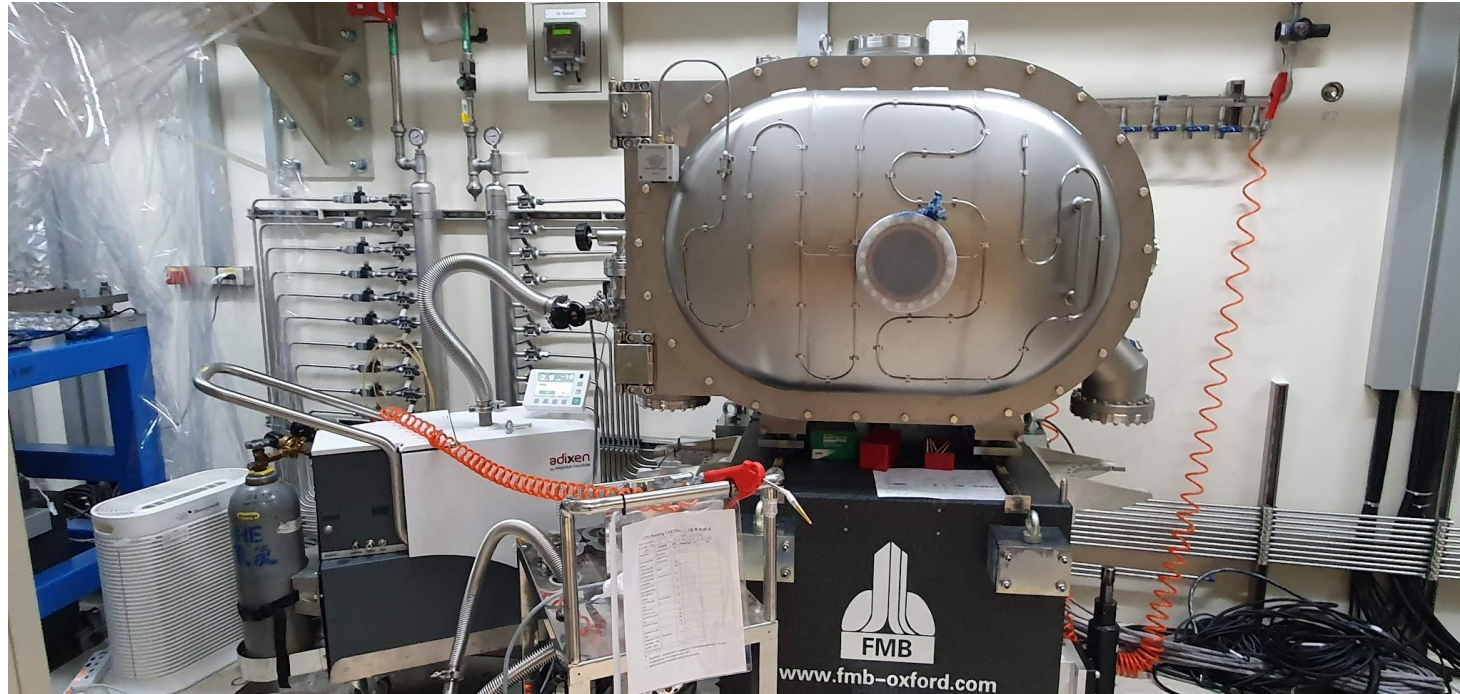# Taiwan Photon Source (TPS) and TLS

TPS 15A Beamline

TPS X-ray beamlines

Phase II: 7 IDs, 2 BMs (2021)

DIFFRACTION

IMAGING

SPECTROSCOPY

07A Micro-focus Protein Crystallography

02A Brain Imaging (PRT)

44A Quick-scanning X-ray Absorption Spectroscopy

39A Nanometer Angle-resolved Photoemission Spectroscopy

13A Biological Small-angle X-ray Scattering

15A Micro-crystal X-ray Diffraction

19A High-resolution Powder X-ray Diffraction

24A Soft X-ray Tomography

27A Soft X-ray Nanoscopy

31A Projection X-ray Microscopy

TPS 15A Hardware Status

DCM is on leakage testing right now.

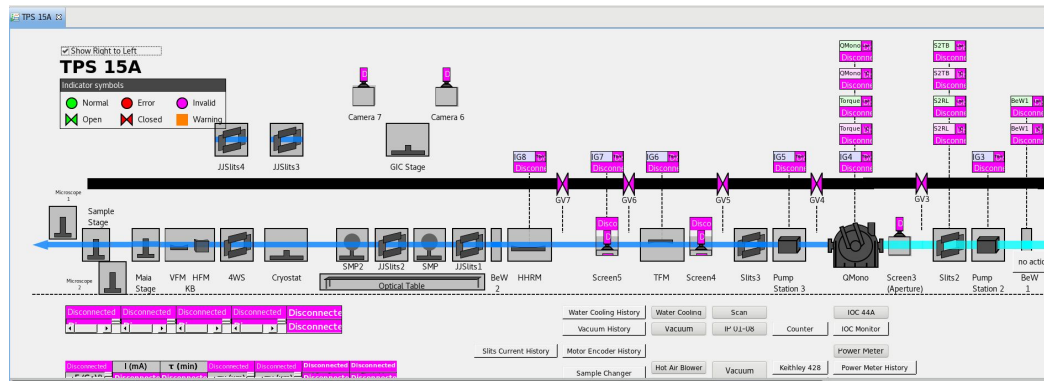# TPS 15A Hardware Status

- FM system was installed and fully tested.
- Femtosecond Laser is on board
- Eiger detectors are on testing.

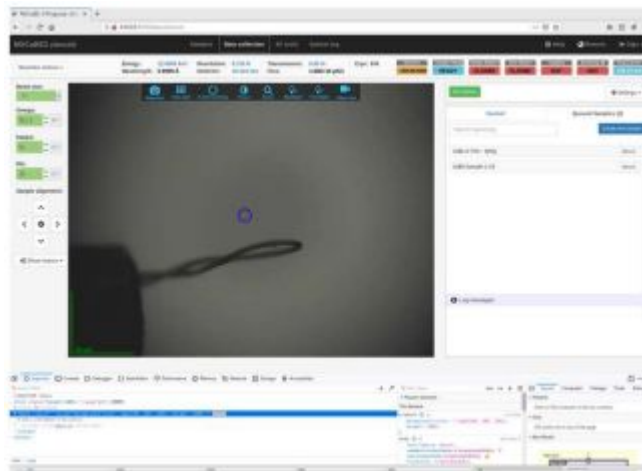# TPS 15A Software Status

- EPICS:
  - Server set-up
    - CentOS Stream 8 installation
    - System requirements installation
    - Network structure deployment

  - EPICS set-up
    - Install EPICS basic set
    - Set up EPICS environment
    - Main inerface design
    - EPICS related learning

TPS 15A Software Status

- MXCuBE:
  - MXCuBE Muck-up Test
    - Install CentOS 7 environment
    - Make the site-specific profile
    - Learn and test EPICS layer (LNLS)
    - EPICS-related components develop

  - MD3-UP integration
    - Test the exporter connection
    - Develop EPICS wrapper layer
    - Try Tango service on Camera system

Acknowledgement

MXCuBE develop community

Marcus at ESRF

Jie Nan at MAXIV

Lais at LNLS

Wenming at SSRF

TPS 15A Group