



國家同步輻射研究中心
National Synchrotron Radiation Research Center

Detector Status at Taiwan Photon Source

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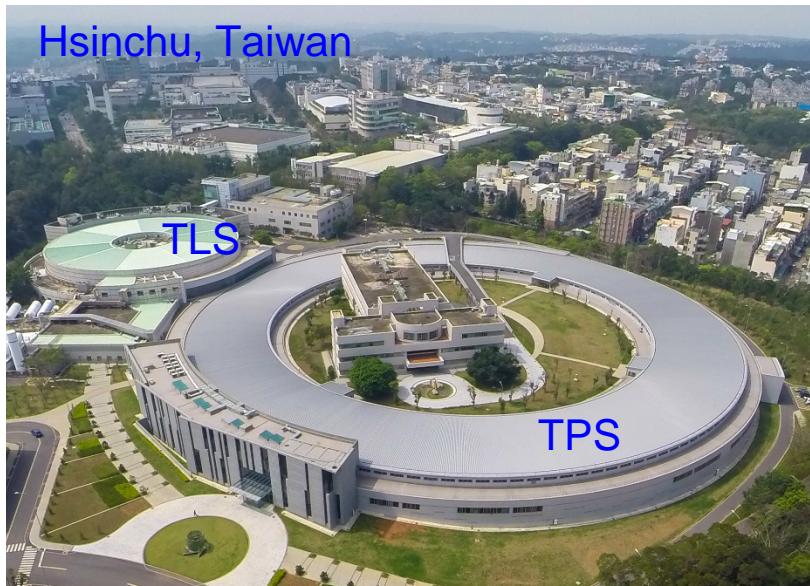


Experimental facilities of NSRRC

SIKA at ANSTO



TPS
(17 beamlines)



TLS
(20 beamlines)

**2 Taiwan
Beamlines
at SPring-8**

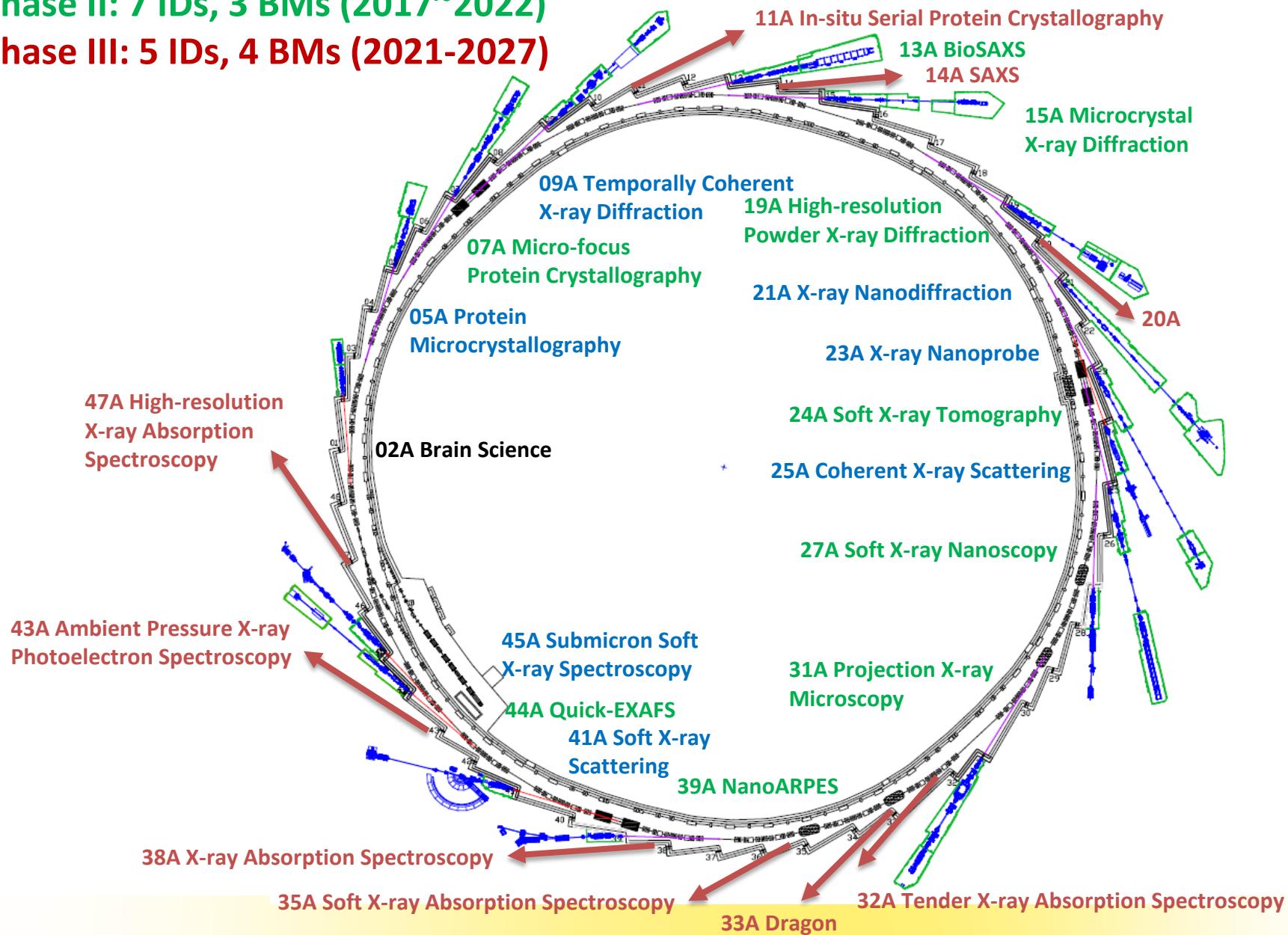


TPS beamlines

Phase I: 7 IDs (2016)

Phase II: 7 IDs, 3 BMs (2017~2022)

Phase III: 5 IDs, 4 BMs (2021-2027)



Current Detectors

- Detectors for X-ray imaging, diffraction, and scattering beamlines:
 - Si Pilatus 6M, Eiger 16M x 2, Eiger 9M x 2
 - CdTe Eiger 9M, 2M-W for X-ray > 20 keV
 - Strip detector Mythen 18k for powder X-ray diffraction beamlines
- Indirect CMOS camera for high energy/frame rate imaging beamline
 - Memrecam 50k-1M fps, Zyla sCMOS 100 fps
- Energy resolution detectors for spectroscopy beamlines
 - Maia-384 (collaboration: BNL, CSIRO, and NSRRC)
 - SDD Rayspec 7 sensor circular focused array
- Projects under development:
 - Indirect CMOS strip detector for X-ray imaging (Flash talk, session 8)
 - Indirect CMOS area detector for X-ray imaging and diffraction
 - EMCCD + Andor camera for soft X-ray scattering and imaging

Thank you for your attention.



An aerial photograph of the Taiwan Light Source and Taiwan Photon Source facilities. The facilities consist of two large circular buildings with grey roofs, surrounded by green lawns and trees. The facility on the left is labeled '1.5 GeV Taiwan Light Source' and the one on the right is labeled '3 GeV Taiwan Photon Source'. In the foreground, there are roads and a few small yellow boxes containing text. The background shows a dense urban area with many buildings under a clear blue sky.

1.5 GeV
Taiwan Light Source

3 GeV
Taiwan Photon Source

TLS BL: 20

TPS BL : 16+1+9

Taiwan BL @ SP8: 2