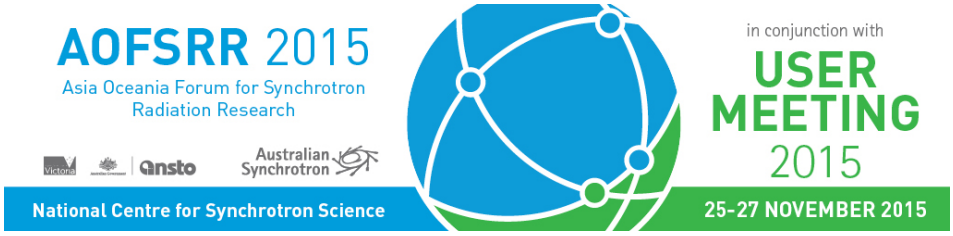

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Beamline Plan at Taiwan Photon Source

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Taiwan Photon Source is designed to emphasize electron beams of small emittance and great brilliance for generating ex-tremely bright photon beams. The superior characteristics of TPS have opened avenues for novel scien-tific opportunities and experimental techniques. The advanced techniques of seven phase-I beamlines include temporally coherent X-ray diffraction, protein microcrystollography, submicron soft X-ray spectroscopy, coherent X-ray scattering, submicron X-ray diffraction, X-ray nanoprobe, and resonant soft X-ray scattering. Taking full advantage of the highly brilliant photon source, the phase-I beamlines will aim for the forefront of science. These beamlines cover diverse researches in physics, chemistry, biology, and material science, in the energy range from soft to hard X-rays for advanced research in spectroscopy, scattering and imaging. Scientific opportunities provided by the beamlines will no doubt boost Taiwan frontier researches. Moreover, phase-II beamline plan at TPS is under discussion. The eighteen phase-II beamlines will address complementary advanced techniques to phase-I beamlines and relocate the fruitful scientific activities at Taiwan Light Source to the TPS.

Keywords

Beamline, Synchrotron light source

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