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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 extremely bright photon beams. The superior characteristics of TPS have opened avenues for novel scientific opportunities and experimental techniques. The advanced techniques of seven phase-I beamlines include temporally coherent X-ray diffraction, protein microcrystallography, 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.

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Beamline, Synchrotron light source

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