



HLS (Hefei Light Source)

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National Synchrotron Radiation Laboratory (NSRL) is the 1st national laboratory of China. Located at the University of Science and Technology of China (USTC), NSRL operates the first dedicated synchrotron radiation facility of China, Hefei Light Source (HLS). The construction of HLS-I went through two stages: Phase-I (1984-1991) and Phase-II (1999-2004).

After successfully completing a major upgrade project in 2014, the performance of the HLS-II is comparable with the 3rd generation synchrotron facilities, which now has ten beamlines and experimental stations, including Infrared Spectroscopy and Microspectroscopy, Combustion and Flame, Mass Spectrometry, Soft X-ray Microscopy, Spectral Radiation Standard and Metrology, Atomic & Molecular Physics, Photoemission Spectroscopy, Catalysis and Surface Science, X-Ray Magnetic Circular Dichroism and Angle-resolved Photoemission Spectroscopy. The bright synchrotron radiation, along with the well-designed beamlines and experimental stations, provides the world-wide scientists and researchers with a comprehensive and interdisciplinary platform to carry out cutting-edge experiments. The research with HLS-II covers physics, chemistry, life and medical sciences, material sciences, surface sciences, metrology, instrumentational development, etc.

At present, NSRL is planning to build a state-of-the-art 4th generation light source, Hefei Advanced Light Facility (HALF). And the conceptual design and preliminary research of HALF has been completed.