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High-Resolution Hard X-ray Spectroscopy Beamline Designed at Shenzhen Innovation Light-source Facility (SILF)

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Shenzhen Innovation Light-source Facility (SILF) is a newly proposed fourth-generation synchrotron light source in China. In the first phase, a high-flux undulator beamline for high-resolution hard X-ray spectroscopy and hard X-ray photoelectron spectroscopy, named as High-Resolution Hard X-ray Spectroscopy Beamline, will be designed and constructed. This beamline is equipped with a double-crystal monochromator, a high harmonics suppression mirror and Kirkpatrick-Baez mirror pairs, providing 3.4-18 keV hard X-ray with a focused spot size of $15\mu\text{m}^2$. It will be dedicated to high energy resolution fluorescence detected X-ray absorption spectroscopy (HERFD-XAS), X-ray Emission Spectroscopy (XES), resonant inelastic X-ray scattering (RIXS) and hard X-ray photoelectron spectroscopy (HAXPES) measurements for advanced research and industrial innovations.

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