

# **Hard X-ray Microscopy and its Applications at Shanghai Synchrotron Radiation Facility**

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## **Abstract**

A beamline for hard X-ray microscopy is now under construction at Shanghai Synchrotron Radiation Facility (SSRF) and will be commissioned in 2009. Imaging modalities including microtomography, diffraction-enhanced imaging and traditional radiography are to be developed. Imaging mechanisms such as phase contrast and absorption contrast will be employed. The scientific cases and current status of the beamline are to be introduced. An in-house X-ray phase contrast imaging system has been developed at SSRF. The facility and its applications in biomedicine will be brought out. Investigations on X-ray imaging methodology and corresponding applications, carried out at BSRF, Photon Factory and Elettra, will also be introduced.