

Virtual Hard X-Ray Collaboration Seminar Series

Date: Thursday 5th August 2021

Title: Update on SHINE machine

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Abstract:

SHINE (Shanghai High repetition rate XFEL and Extreme light) is a hard X-ray free electron laser driven by a cw superconducting linac with 8 GeV electron beam energy and up to 1 MHz rep-rate. This facility will provide broad range of scientific users with 3 FEL undulator lines and 10 endstations when the phase I is completed at around 2025.

This talk will give an update on the project with the main focus on the machine. Up to now the prototypes of most major accelerator components including VHF gun, 1.3GHz cryomodule, undulators etc. are developed and under various tests. The cryoplant and facilities for the SRF tests have been built at SHINE site and in normal operation.