



Contribution ID: 15 Contribution code: TUZN1

Type: **Invited Oral Presentation**

## Shanghai hard X-ray FEL facility (SHINE) progress status

*Tuesday, 21 May 2024 14:00 (30 minutes)*

SHINE (Shanghai Hard X-ray FEL Facility) is a high repetition rate X-FEL facility under construction in Shanghai, China. The facility is based on an 8 GeV CW superconducting linac and plans to have 3 undulator lines and 10 experimental stations in phase-I, covering the photon energy range of 0.4 –25 keV. Mass production of the components and installation of the machine are in course. User experiments are expected to start in 2025. This presentation summarizes the proposed configuration and the status of R&D and production for the critical components and systems, discussing the key technologies. The current status of the project and the plans leading to the completion will be presented, outlining the major scientific goals of the facility.

### Footnotes

### Funding Agency

### Paper preparation format

### Region represented

Asia

**Primary author:** ZHAO, Zhentang (Shanghai Synchrotron Radiation Facility)

**Presenter:** ZHAO, Zhentang (Shanghai Synchrotron Radiation Facility)

**Session Classification:** TUZN: Photon Sources and Electron Accelerators (Invited)

**Track Classification:** MC2: Photon Sources and Electron Accelerators: MC2.A06 Free Electron Lasers