



Contribution ID: 1527 Contribution code: MOPC47

Type: **Poster Presentation**

Design and status of the SHINE injector

Monday, 20 May 2024 16:00 (2 hours)

Shanghai High repetition rate XFEL and Extreme light facility (SHINE) is an x-ray FEL facility, consisting of an 8 GeV CW superconducting linac and 3 FEL undulator lines, covering the spectral ranges 0.4-25 keV. Photoinjector using VHF gun is one of the key part of the facility. The installation of the electron gun section of the SHINE injector has been completed in August 2023. RF conditioning and commissioning were carried out from September to December. In this paper, we will introduce the installation progress of the injector and show some commissioning results of the electron gun section.

Footnotes

Funding Agency

Paper preparation format

Region represented

Asia

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Session Classification: Monday Poster Session

Track Classification: MC1: Colliders and other Particle and Nuclear and Physics Accelerators: MC1.A08 Linear Accelerators