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Commissioning of the SHINE Electron Source

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Shanghai high repetition rate XFEL and Extreme light facility (SHINE) is designed to be driven by an 8 GeV continuous wave (CW) superconducting RF (SRF) linac with MHz repetition rate high brightness electron beam. SHINE started electron source installation in 2023, and the first 100 pC photoelectron beam successfully reached the ~1 MeV beam dump at 1 MHz rate in December of 2023. After that, the 100 MeV injector resumed installation in January of 2024. In this report, both the electron source commissioning results and the 100 MeV injector installation progress will be presented.

Footnotes

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