

COOL'25 - the 15th International Workshop on Beam Cooling and Related Topics

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Development of an electron cooler for HIAF facility in China

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The High Intensity heavy-ion Accelerator Facility (HIAF) is a mega-scientific facility in China. A magnetized electron cooling system is used in the Spectrometer Ring (SRing) to improve the beam quality for internal target experiments. The maximum electron beam energy is up to 450 keV. In 2025, all components of the cooler have been installed in the SRing tunnel. In this report, the measurement of the longitudinal magnetic field quality, the test results of the high voltage system and the electron beam commissioning are reported.

Footnotes

Funding Agency

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Yes

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