MT26 Abstracts, Timetable and Presentations



Contribution ID: 950

Type: Poster Presentation

Tue-Mo-Po2.04-06 [20]: Magnet design of the electron cooling System for HIAF

Tuesday 24 September 2019 08:45 (2 hours)

The new accelerate facility HIAF is under constructing in IMP (Institute of Modern Physics), Chinese Academy of Sciences. It consists of a linac, a booster of BRing and a spectrometer ring of SRing and some terminals for experiments. The electron cooling technology is applied in the SRing, which is composed of solenoids and racetrack coils. In this paper, the magnetic field of the electron cooler is simulated and article trajectories are displayed. Because of the long evacuated tube for cooling section, different type of drift solenoids are optimized to connect the two 3.5m solenoids to ensure the field fluctuation within 20Gauss.

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Session Classification: Tue-Mo-Po2.04 - Resistive Magnets for Accelerator and Fusion I