

Top-off operation realization for Hefei Light Source II

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Hefei Light Source (HLS) successfully completed its major upgrade project in 2014. The lattice structure is changed from TBA to DBA while the circumference remains 66 m due to the limitation of the facility building. The beam energy is kept 800 MeV and the current is raised to 360 mA. The upgrade greatly improved the performance of the light source including its stability and reliability. However the change of the operation mode was not taken into consideration in the upgrade project. In order to meet the incremental requirements of the users, we carried out a project to realize top-off operation in 2016. This project was successfully finished in July, 2018. In this poster, we present our efforts in the realization of the top-off operation for Hefei Light Source, including the improvement of the injector performance, optimization of the beam injection system and the personnel protection system, etc.

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