Contribution ID: **247** Contribution code: **WEP56** Type: **Poster Presentation**

Progress of front ends at HALF

Wednesday 17 September 2025 17:00 (1 hour)

Hefei Advanced Light Facility (HALF) is a 4th generation synchrotron radiation facility building in Hefei, with a 2.2 GeV storage ring perimeter of 479.86 m and 40 straight sections. In phase I, 11 front ends will be installed, including 10 undulator front ends and 1 bending magnet front end. 10 undulator beamlines will be open to users, while the bending magnet will be used for machine study. The undulator front end will receive 17.3 kW/mrad2 of peak power density and 4.7 kW of the total power. These front ends adopt a common modular design, which is based on compatibility with various front ends. The difference lies in the selection of individual components and the variations in parameters. In this paper, the designs and the progress of HALF front ends are presented.

Footnotes

Funding Agency

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Session Classification: Wednesday Poster Session

Track Classification: BEAMLINES: Front Ends