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## Design study of distributed pumping system using NEG strips for HALF

*Thursday 5 June 2025 15:30 (2 hours)*

The design study of a distributed pumping system using NEG (Non-Evaporable Getter) strips for the slender beam pipes of the Hefei Advanced Light Facility (HALF) is presented. To achieve a high pumping speed and pumping capacity in a limited pumping space, a NEG strip with distributed pumping capacity was considered. A prototype of HALF vacuum chamber, which can be inserted into NEG strip and matched with magnet system, is designed. The activation temperature of NEG strip and the ultimate vacuum after activation are tested, and the results are in good agreement with those obtained from the simulation.

### Footnotes

### Paper preparation format

Word

### Region represented

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