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# Centrifugal barrel polishing of the SHINE 1.3 GHz 9-cell cavities

*Monday 22 September 2025 14:30 (3 hours)*

The Shanghai high-repetition-rate XFEL and extreme light facility (SHINE) under construction is designed to be one of the most advanced free electron laser facilities in the world. The main part of the SHINE facility is an 8 GeV superconducting linac operating in continuous wave mode. The linac consists of seventy-five 1.3 GHz cryomodules. This paper presents the successful repair of defects in 1.3 GHz 9-cell cavities by centrifugal barrel polishing. Vertical test results show the improvement of cavity performance.

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Yes

## Footnotes

## Funding Agency

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