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# Current status of the high current 1.5 GHz SRF cavity prototypes for VSR Demo

*Tuesday 23 September 2025 14:30 (3 hours)*

The BESSY Variable pulse-length Storage Ring (VSR) Demo project aimed to provide short and long pulses simultaneously in the BESSY II storage Ring. To achieve this goal HZB has developed high current Continuous Wave (CW) Superconducting Radio Frequency (SRF) cavities operating at 1.5 GHz for 300 mA beams with large damping capabilities to cope with the HOM powers expected. This paper presents the current status, fabrication and lessons learned as results from the delivered prototype by Reseach Instruments and tests carried on at SupraLab HZB.

## I have read and accept the Privacy Policy Statement

Yes

## Footnotes

## Funding Agency

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