



Contribution ID: 231

Type: **Oral presentation (remote)**

High-Q cavities measurements and diagnostics

Wednesday, 10 July 2024 16:20 (20 minutes)

Research and development on high-Q cavities requires extensive experimental campaigns to understand the origin of possible performance limitations and then to study the effect of more advanced surface treatments on the physical mechanisms governing such a high-Q operating regime.

From the experimental point of view, significant effort must be made to avoid flux trapping, either by canceling the remanent field or by rapid cooling procedures. To this end, INFN LASA has initiated an upgrade of its vertical test facility. Ongoing activities include the construction of a new dedicated cryostat, the development of an experimental system for external magnetic flux control and regulation, and the integration of a wide range of diagnostics for quench and field emission events. As examples, some experimental results on prototype high-Q cavities are reported and discussed.

Apply for poster award

Primary author: BERTUCCI, Michele (INFN sezione di Milano)

Presenter: BERTUCCI, Michele (INFN sezione di Milano)

Session Classification: Superconducting RF

Track Classification: Accelerator: Superconducting RF