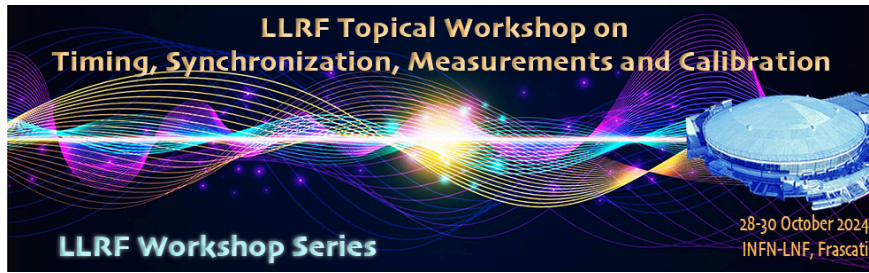


LLRF Topical Workshop - Timing, Synchronization, Measurements and Calibration



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Type: **Poster**

Mitigation for a shorted cavity probe at EuXFEL

Tuesday, 29 October 2024 16:40 (1h 50m)

Since the commissioning of the EuXFEL free electron laser, one of the 784 superconducting cavities of the linac has a short circuit at the probe connector. For this reason, its signal cannot be used for field regulation. Instead, the signal coming from a high order mode (HOM) coupler antenna is included in the vector sum regulation. This cavity shows a direct impact on the beam arrival time profile along the bunch train. In this work, limitations and operational solutions are described.

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