



Contribution ID: 152

Type: Oral

Breakdown Measurements in High-Gradient RF Test Stands

Thursday 19 September 2019 18:50 (5 minutes)

The CLIC project aims to establish an accelerating gradient of 100MV/m within novel high gradient X-band accelerating structures, this leads to surface electric fields on the order of 220MV/m. In this context, CERN have developed high power X-band RF test stands (Xboxes) to test the prototype structures for CLIC at high power. A summary and analysis of recent RF results from the test stands will be presented.

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Session Classification: Poster

Track Classification: Experiments and Diagnostics