

G-RAD Workshop - Grenoble Radiation Testing of semiconductor devices and systems



Contribution ID : 26

Type : **not specified**

Radiation effects and testing for CERN accelerators

Thursday, 10 December 2020 09:45 (15)

The CERN accelerator complex and notably the Large Hadron Collider (LHC) host vast quantities of electronic components and systems exposed to radiation, which therefore need to be tolerant enough against radiation effects in order not to negatively impact the performance of the accelerator. This presentation will cover the related challenges and solutions in terms of radiation environment, effects on the accelerator systems, and related Radiation Hardness Assurance procedure.

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Session Classification : Session 3 - Harsh Environments and specific needs