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Radiation effects and testing in CERN experiments

Thursday, 10 December 2020 09:30 (15 minutes)

The estimated radiation field in the central particle detectors at the CERN High-Luminosity Large Hadron Collider will extend to ultra-high TID levels (1Grad). The radiation hardness specifications for the ASICs developed to read-out signals from these detectors will be presented, together with the technology and design choices enabling to meet them. Qualification procedures as well as irradiation facilities typically used for radiation testing will be discussed.

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