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Overview of irradiation facilities and AIDA-2020 Irradiation Facilities database

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In view of the High-Luminosity upgrade of the CERN Large Hadron Collider (HL-LHC), performance studies of tracking and calorimetry detectors are essential. These detectors have to withstand harsh radiation environments and continue performing efficiently over the HL-LHC lifetime. This can only be achieved by performing test beams of irradiated devices. Therefore, sharing the knowledge about irradiation facilities with the Beam Telescope and Test Beam community is crucial.

In this talk, we will focus on irradiation facilities linked to tests on irradiated tracking detectors and calorimeters. This contribution will include details about the available radiation fields and sources, their characteristics, their experimental conditions as well as safety requirements. In addition, the new Irradiation Facilities database, developed within the EU-funded project AIDA-2020, will be presented. This database is gathering in one unique location (CERN website) the relevant information about all irradiation facilities available at CERN, in the EU and worldwide. Currently, this database includes information collected from various existing sources. Over a longer term, this database aim is to be kept updated by the irradiation facilities owners and to be the main portal for anybody seeking for irradiation facilities information.

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