11th Beam Telescopes and Test Beams Workshop



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Updates, Status and Experiments of CLEAR, the CERN Linear Electron Accelerator for Research User Facility

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Operating since 2017, the CERN Linear Electron Accelerator for Research (CLEAR) is a user facility providing electron beams for a large and varied range of experiments. The electron beam is produced from a Cs_2Te photocathode and is accelerated between 60 MeV and 220 MeV in a 20 m long linear accelerator (LINAC). The accelerated beam is then transported to an experimental beamline, in which experiments such as irradiation of electronics for aerospace applications, irradiation for medical applications including dosimetry and FLASH radiotherapy and beam-diagnostics development are performed. In this presentation, the current status of the beam line, the latest upgrades and the recent and future experiments are presented.

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