

12th Beam Telescopes and Test Beams Workshop



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On-beam test for the LHC Phase-II CMS Electromagnetic PbWO₄ calorimeter

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The High-Luminosity phase of the CERN Large Hadron Collider will pose new challenges for the detectors. The Electromagnetic Calorimeter (ECAL) of the CMS experiment will be equipped with a completely new readout electronics to cope with increase in the number of pp collisions per bunch crossing, as high as 200, and higher noise induced by radiation. Two on-beam vertical integration tests were performed at the CERN H4 facility using near-final components, installed in an ECAL Supermodule identical to the 36 Supermodules the barrel is made of. The data acquisition chain and the results of the test beam will be presented.

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