

Abstract Submitted  
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**Quartz Plate Calorimeter Prototype** UGUR AKGUN, The University of Iowa — The Cerenkov calorimeters are effective solutions to the high radiation environment of the future hadron colliders. We designed and built a Cerenkov calorimeter prototype that consists of 20 layers of quartz plates and iron absorbers between them. In this report we present the results from the test beam performed at CERN H2 area with various energies of electron and pion beams. The hadronic and electromagnetic energy resolutions, signal collection uniformity, and linearity of the calorimeter are presented as well as the Geant4 simulations.

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