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Update on the GEM Digital HCal

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To meet the requirements for precision jet energy measurements through the particle flow algorithm, the development of hadronic calorimeter technique with an unprecedented granularity is necessary. For this, UTA group has been working on developing a Digital Hadron Calorimeter using Gas Electron Multiplier (GEM) in the sensitive gap. The group has recently developed 30cmx30cm GEM foils together with 3M Inc. and have constructed a large prototype chamber with multiple readout channels. This chamber has been exposed to a high current, low energy electron beam in KAERI, Korea. We will report on these recent progress of larger GEM foil development and the preliminary result of the beam exposure data.

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