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## Hardware Developments for the CALICE AHCAL

*Tuesday, 16 March 2021 23:00 (20 minutes)*

The Analog Hadron Calorimeter (AHCAL) concept developed by the CALICE collaboration is a highly granular sampling calorimeter with  $3 \times 3 \text{ cm}^2$  plastic scintillator tiles individually read out by silicon photomultipliers (SiPMs) as active material.

After building a large technological prototype and testing it in particles beams at DESY and CERN in 2018, the hardware developments and tests are now focused on two areas:

- an alternative readout ASIC which supports operation in power-pulsing mode as well as continuous readout,
- an alternative scintillator geometry (Megatiles) where the segmentation of larger scintillator plates into small tiles is achieved by grooves filled with reflective material.

The talk will present the current status of these developments.

### Time Zone

Europe/Africa/Middle East

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