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## **Imaging Hadron Calorimetry for Future Lepton Colliders**

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To fully exploit the physics potential of a future Lepton Collider will require unprecedented jet energy and (di)-mass resolution. To achieve this goal, detectors optimized for the application of Particle Flow Algorithms (PFAs) are being conceived. The application of PFAs requires calorimeters with very fine segmentation of the readout, so-called imaging calorimeters.

This talk will review the main developments in imaging hadron calorimetry geared towards implementation in a future Lepton Collider detector. The talk covers recent results from the large prototypes of the CALICE collaboration, such as the Scintillator Analog Hadron Calorimeter (AHCAL) and the Digital Hadron Calorimeters (DHCAL and SDHCAL). In addition, precision measurements of the development of hadronic showers as function of time will be presented.

### **quote your primary experiment**

CALICE

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