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## **Beam Test and Simulation Results with Highly Granular Calorimeters for the ILC**

*Thursday 15 October 2009 15:10 (20 minutes)*

To evaluate technologies for ILC calorimetry, the CALICE collaboration has constructed a prototypes of highly granular sampling calorimeters. These detectors have been tested extensively in particle beams at DESY, at CERN and at Fermilab. The imaging capabilities of these detector provide three dimensional information of hadronic showers with unprecedented resolution and will thus help to constrain hadronic shower models in simulations.

We present results from the analysis of hadronic events including studies of the longitudinal and transverse shower profiles. The results are compared to simulations with a variety of different models. We put particular emphasis on the comparison of our data to the new physics lists proposed by the G4-hadronic team.

### **Are you a Memeber of the Geant4 Collaboration (yes/no)**

no

### **Keymords**

hadron  
calorimetry  
ILC  
CALICE

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**Session Classification:** Parallel Session I - Hadronic Physics Validation

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