

The performance of the Physics Prototype of the CALICE ScWECAL for ILD

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Excellent jet energy measurement is required for the future linear collider experiment. The Particle Flow method of jet reconstruction, which can achieve excellent energy measurement, requires a calorimeter with very fine granularity. We have constructed a prototype electromagnetic calorimeter (ScWECAL), consisting of scintillator strips and Multi-pixel Photon Counter as active layers and tungsten plates as absorber. We achieve an effective granularity of almost $10 \times 10 \text{ mm}^2$ by orthogonally oriented scintillator layer. We will report on the ScWECAL performance in tests using 32 GeV muon and 2-32 GeV electron beams at MT6 of FNAL in 2009.

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