Contribution ID: **142** Type: **not specified**

Development of a Scintillator-Tungsten Electromagnetic Calorimeter with Silicon Photomultipliers

Thursday, 20 July 2006 11:45 (25 minutes)

We are investigating the feasibility of a scintillator-tungsten electromagnetic calorimeter. We use silicon photomultipliers in our calorimeter module to detect light in scintillator tiles guided by wavelength-shifting fibers. We observe sensitivity to single visible photons in the photomultipliers, and can discriminate photons on a time scale of under 10 ns. We are currently studying the response of our module to cosmic ray muons, as well as the performance of the wavelength-shifting fibers.

Joseph Proulx

Primary author: PROULX, Joseph (University of Colorado at Boulder)

Presenter: PROULX, Joseph (University of Colorado at Boulder)

Session Classification: Detector/ Calorimetry