

CALICE scintillator ECAL base unit

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CALICE scintillator ECAL module which consists of a scintillator strip layer and an embedded electronics layer will be reported. In total 144 scintillator strips whose dimensions (5mmx45mmx2mm thick) are covering 18cm x 18cm surface, where the same size ECAL base unit called EBU, is located behind the strip layer equipping 144 photo-sensors and front end read out system. The amplifier, shaper, ADC and voltage controller are integrated into four ASICs (SPIROC2b). The performance with 10um pitch MPPC and a few different scintillator materials are compared and reported here. Smallness of sensitive area of photo sensor makes difficult to have valuable data on the system. We will discuss the problem and solutions.

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Session Classification: Prototypes, upgrades and concepts