

PFA based calorimeter's plans for TB (*mostly CALICE*)

- 5 main projects with plans for TB
 - SiW ECAL
 - ScW ECAL
 - Analog HCAL
 - Digital HCAL
 - Semi-Digital HCAL
- 2 DAQ
 - v1 « Analogue » well and running
 - v2 « digital » at the end of developpement phase

SiW ECAL

- Phys. completed
 - Analysis on going
- TB combined with DHCAL
 - end of '09 @ FNAL
- Assembly of full module T2 ~2010 (rate dep. funding)
- Combined test for the following
 - with DAQv2

technol. prototype

- granularity 0.5×0.5 vs 1×1 cm²
- electronics "inside" (vs "outside")
- new wafers (guard ring)
- Slab thickness = 6mm (vs 8.3)
- channels: 45360 (vs 9750 = $\times 5$)
- Weight: 700 kg (vs 200)

Sc W ECAL

- 2nd prototype
 - 30 layers
 - with DAQv1
- tested in '08
- test being complemented (May 09)
 - More E scan pts for e- / e+
 - tilt @ 20-30°
- further test: yet unknown

AHCAL

- Physical prototype 1m³
 - Readout with DAQv1
- Technological prototype
 - DAQv2
 - 1 m²
 - 6 HBU (36×36cm²) in prod
 - Stacked for e containment
 - well advanced → late'09 ?
 - 1 m³:
 - « Desirable but not yet funded »

DHCAL

- GEM | RPC
- DAQv1 (now)
- Plans for 1m³
 - GEM: developpement of 1m² ongoing
 - possible TB (FNAL) of 1/3 m³ late'09
 - 1 m² beg'10 – mid'11
 - RPC
 - 1/3 m² being build
 - TB (stand-alone + TCMT) late '09
- To be reviewed in June by the CALICE Techn. Board.

Semi-Digital HCAL

- RPC | μ Megas
- DAQv2
- 1 m²
 - RPC test June 09 @ CERN
 - μ Megas 1 m² soon
- a few m² late'09 beg '10
 - TB in CERN
- \rightarrow 1 m³ T2 2010 ?
- + Combined tests later

Foreseen combined tests

- '09: ScEcal + AHCAL + TCMT
- '10-'11 SiW ECAL Techn + DHCAL & sDHCAL

Not so well know plans (to me)

- MAPS ECAL
- SiD SiW ECAL prototype