

Testbeam ECAL

Wolfgang Lohmann

Planning2021

sensor prototypes will arrive in April, assembly in summer,
mechanical frame construction in summer, beam test in autumn

Si and GaAs sensors will be instrumented with current FLAME
FE and FPGA read-out

Goals:

- Function test of the system
- Signal size and S/N for several pads of each sensor type
- Signal size as a function of the position scanning over neighbour pads, edge region

Planning2022

- Construction of a partly instrumented ECAL with a few fully instrumented detector planes, new FLAME FE, FPGA readout
- Orchestrating the read-out using the Trigger box
- Integrating the ECAL into the central DAQ

Planning2023

First step:

- Completing the ECAL with more fully instrumented detector planes
- New FLAME FE and FPGA readout
- Performance studies of at least one fully equipped tower

Second step:

- Integration of the ECAL readout in the central DAQ