

SPS MAY TB 2024

FOCAL-H Tentative Schedule

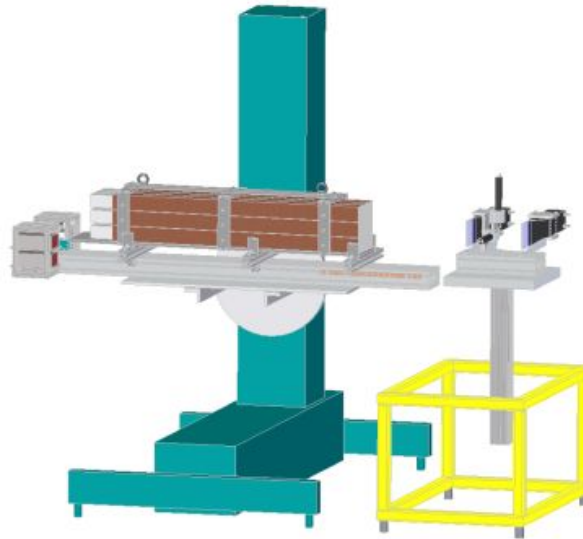
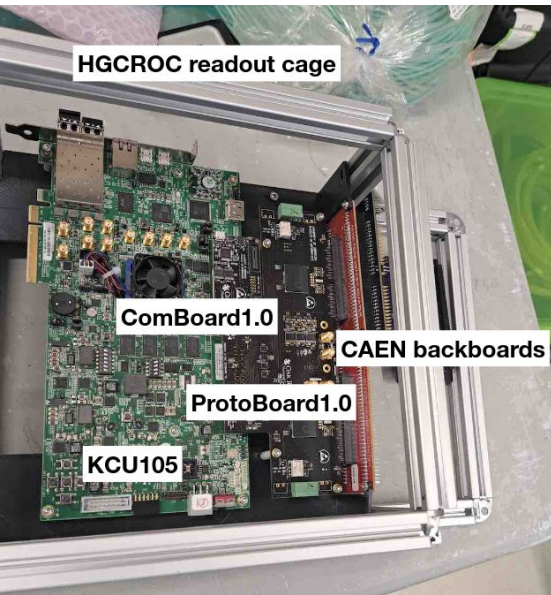
Overview

Objective: To validate/verify/test H2GCROC readout systems, prototype performance tests

CAEN DT5202 - as a reference, existing experience

H2GCROC3 - first look, test operability

Both - electron and hadron beam with energy scan for each of the two readouts



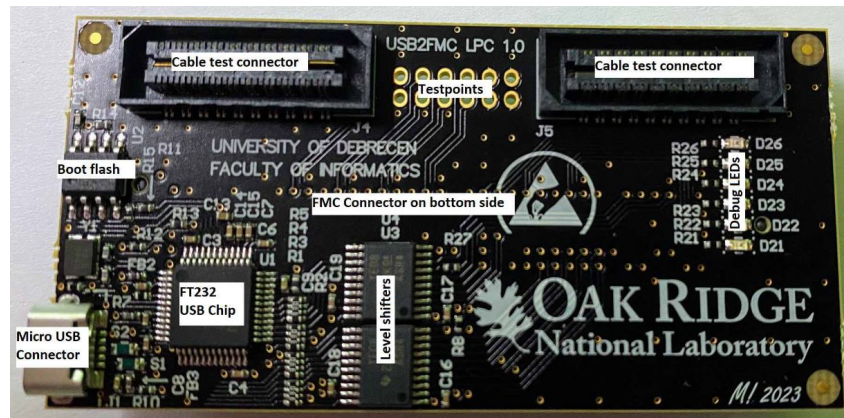
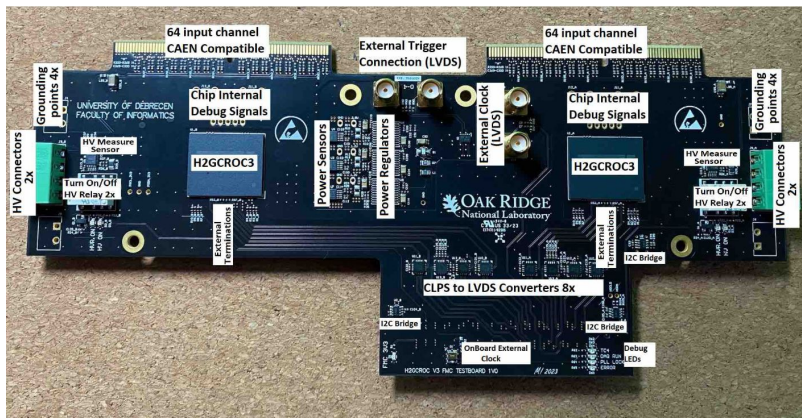
22.05.2024 (Wednesday)

Installation of FoCal-H

- Mount the H2GCROC readout with the KCU board
- Collect data \approx 12 hours
- Get a good set of data (probably hadrons at 100, 200, 300, 350 GeV, electrons at 150, 100 and 60 [according to NA64e electron beam caveats]).

Main goal

- To collect data using H2GCROC and offline analysis of data



23.05.2024 - 26.05.2024

Installation of the CAEN DT5202 boards

Hadron and electron runs with largest possible energy range.

Compensation tests: hadrons and electrons at same energy.

Position scan to check influence of structural inhomogeneities on performance.
(we will need the DESY table for adjusting positions and rotations)

In the meanwhile - understand event building with H2GCROC and reconstruct particle energy

After that - Switch back to H2GCROC and repeat program (on Sunday)