

### **Beam Test goals**

#### Main goals:

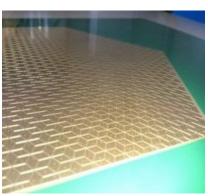
- Apply a new calibration scheme (based on equalizing the response by applying different threshold value/ASIC) in order to improve on the SDHCAL response homogeneity.
- ☐ Study the difference of hadronic showers produced by protons, pions and kaons in order to exploit their differences in developing new PID techniques.

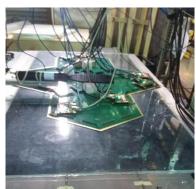
### Other goals:

- Test SDHCAL with SiW ECAL
- > Test the woven strips scheme
- ➤ Test first timing-SDHCAL layers (AiDAInnova)
- Test μWell chambers as active layers by replacing a few GRPC

#### **Beam requirements:**

- Muons
- Pions, kaons, protons, from 10 to 90 GeV (pure hadrons)
- Low intensity beam ( < 1000 particle/cm2/spill)</li>
- Polarity: positive







# **Additional requests:**

# Mandatory:

- 2 Cerenkov detectors for particle identification

## Necessary:

- Moveable table (Nikhef one)
- Help from gas group (TFE, CO2, SF6)