## THGEM-BASED PHOTON DETECTOR FOR **CHERENKOV IMAGING APPLICATIONS**

On behalf of an **Alessandria-CERN-Freiburg-Liberec-Prague-Torino-Trieste Collaboration** 





- large surface of 5 m<sup>2</sup>



COMPASS

- 30 Different configurations in pitch, rim, hole diameter and PCB thickness tested
- Setup THGEM with up to four layers to increase gain

## Characterisation: Gain, Rate Capability, Long Term Stability







## Single Photon Detection and First Electronic Readout









11<sup>th</sup> Pisa Meeting on Advaced Detectors 2009 Elba, Italy florian.herrmann@cern.ch