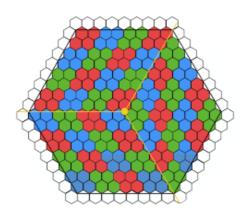
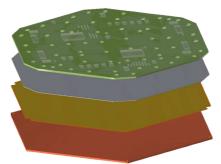
Characterisation of EM showers in CMS High-Granularity Calorimeter with beam test data

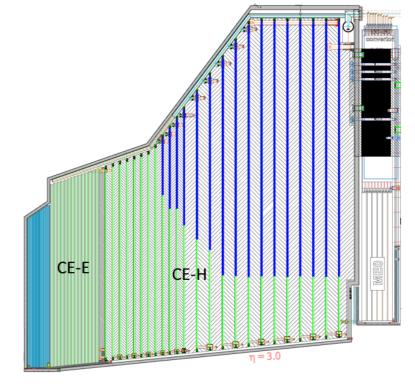
The current endcaps calorimeters of CMS detector at the LHC will be replaced by the

High-Granularity Calorimeters (HGCAL):

- Geometry based on hexagonal modules to allow maximum coverage
- Silicon based calorimeter to sustain the severe radiation conditions
- **5D calorimeter**: space (x, y, z) ,energy (E), time (t)
- High resolution images for a powerful separation between electromagnetic and hadronic showers







You will have the chance to work on real beam test data, taken with the first large scale prototype of HGCAL, to:

- Reconstruct and characterise EM showers
- Compare them with theory
- Measure electrons performance in HGCAL

