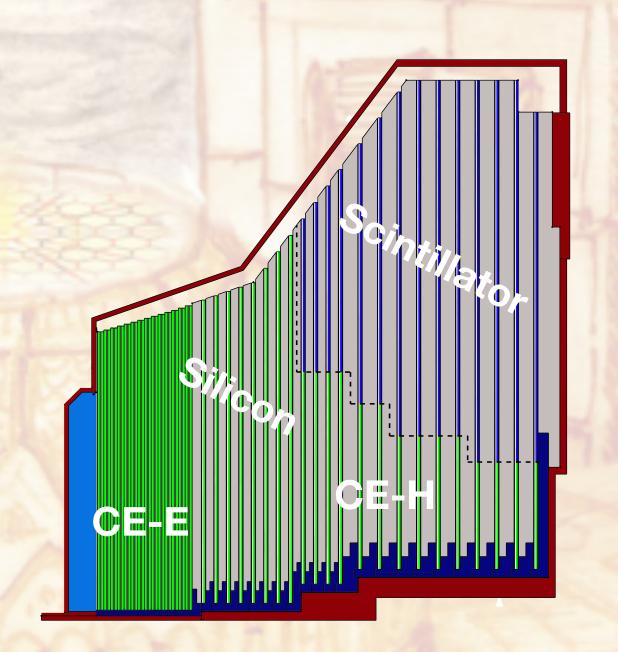
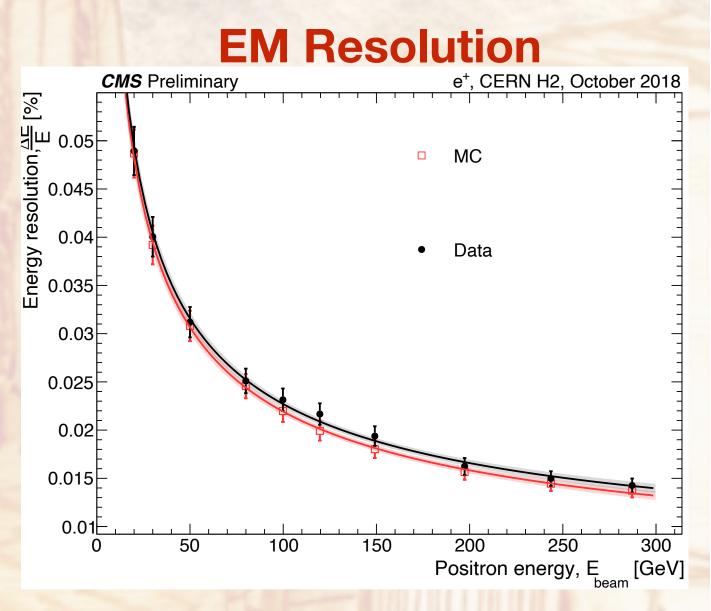
Characterisation of EM showers in CMS High-Granularity Calorimeter with beam test data

- The current endcaps calorimeters of CMS are going to be replaced by High-Granularity Calorimeters (HGCAL)
- HGCAL is a 5D calorimeter: x, y, z, E, t
 - Imaging calorimeter with high discrimination power!
- In this mini-stage:
 - You can work on real beam test data from the first large scale prototype of HGCAL;
 - Reconstruct EM showers in the calorimeter and discriminate e^{\pm} from π^{\pm} ;
 - Measure EM energy resolution;
 - Measure longitudinal and transverse shower profiles;
 - Study of a detailed simulation of HGCAL and comparison with beam test Data.





Silicon Module



HGCAL is a 5D calorimeter: EM shower reconstruction and identification!

