

# HCAL/ECAL MultiFit

*3rd patatrack hackathon  
may23*

*Dario Mapelli, Giacomo Cucciati (ECAL)*

*Mariarosaria D'Alfonso (HCAL)*

*Ahmad Siar Hesam, Viktor khristenko (IT)*

**Ahmad:** implementing the CUDA decomposition method into Eigen

**Viktor:**

- refactored DetId (min compiled/tested), HcalDetId, working HBHEDataFrame, QIE10(11)DataFrame, etc...
- Building up to shipping DigiCollection to GPU and reusing current hcal/ecal stuff

**Giacomo/Dario:** in the afternoon will make the same as Viktor for ECAL

**Dario, Maria:** this morning familiarized with basic algebra computation on cuda

**Maria:** this afternoon will try to clean the redundancy in the existing CPU code