

ECAL projects

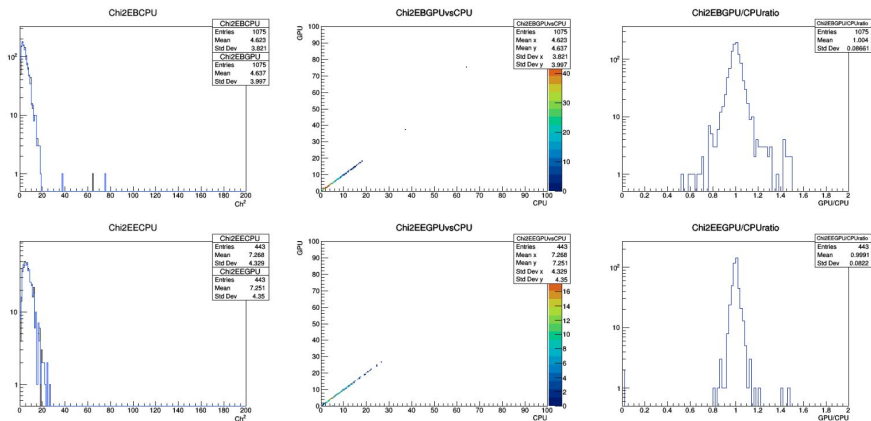
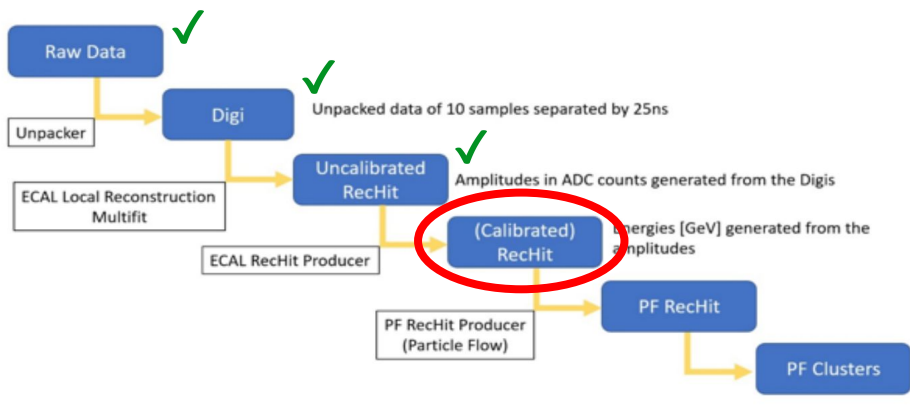
Day 2

Davide Valsecchi & Andrea Massironi

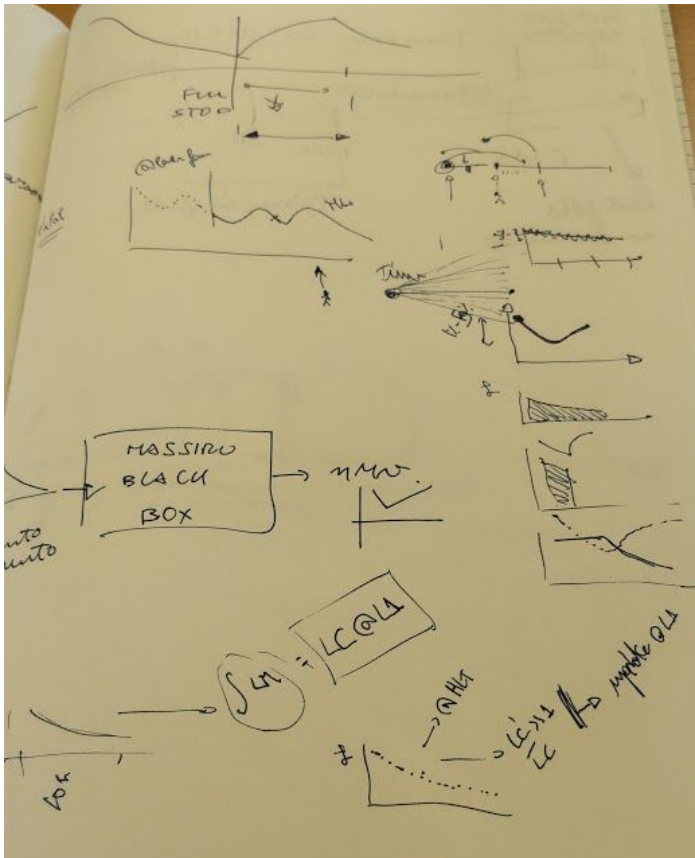
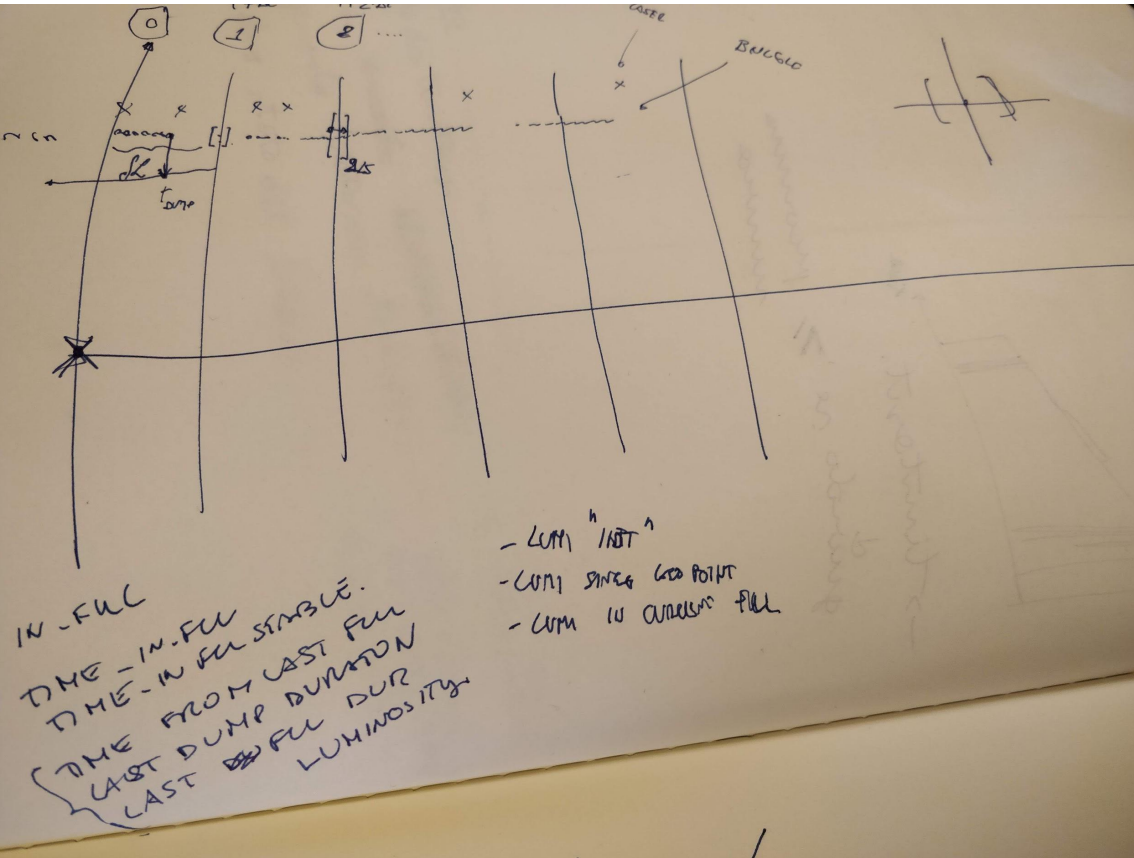
ECAL on GPU

- ReHit @GPU

- Integration of summer student (Eissa Alnasrallah) validation code for rehit
 - Details in <https://cds.cern.ch/record/2689610>
 - https://github.com/amassiro/cmssw/tree/amassiro_patatrack_ECALrehit_on_GPU
 - Useful tool to debug!
- Steps forward to make rehit @gpu compatible with rehit @cpu
 - Still not perfect match between cpu and gpu version → **some bugs fixed**



ECAL transparency evolution prediction: **ML4ECAL**



... Pre-processing transparency data

- Extraction of data from brilcalc ✓
- Massaging of ECAL transparency data ✓

- Tomorrow: **finally play with RNN to predict transparency**
 - Model definition
 - Accuracy needed
 - Effects on physics performance

