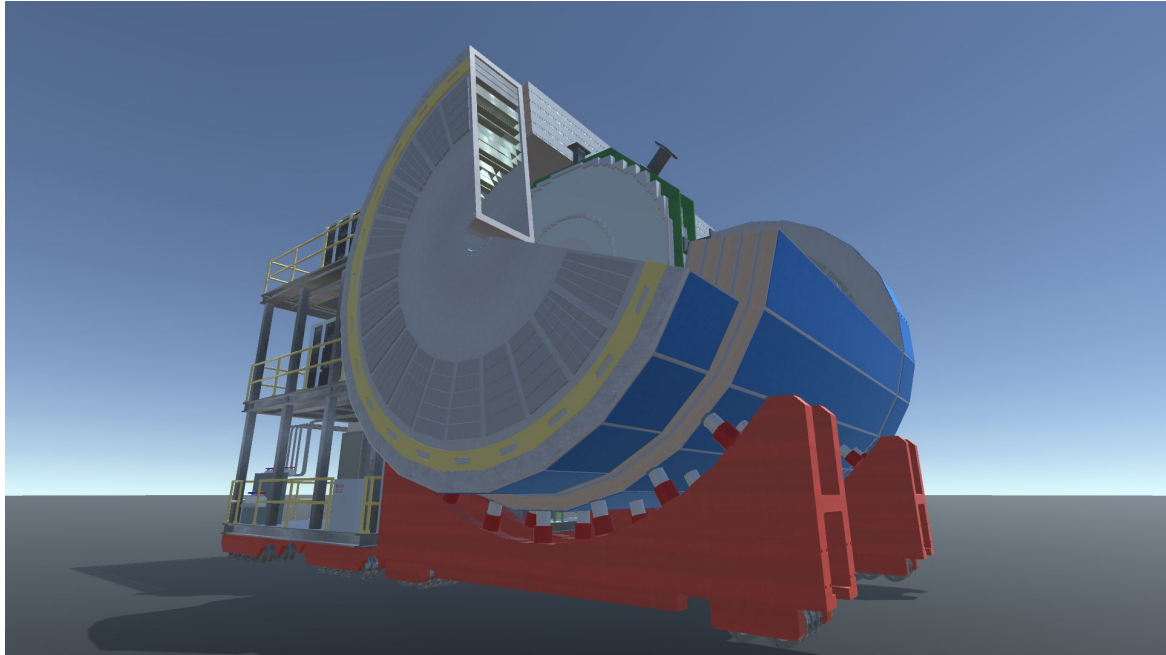


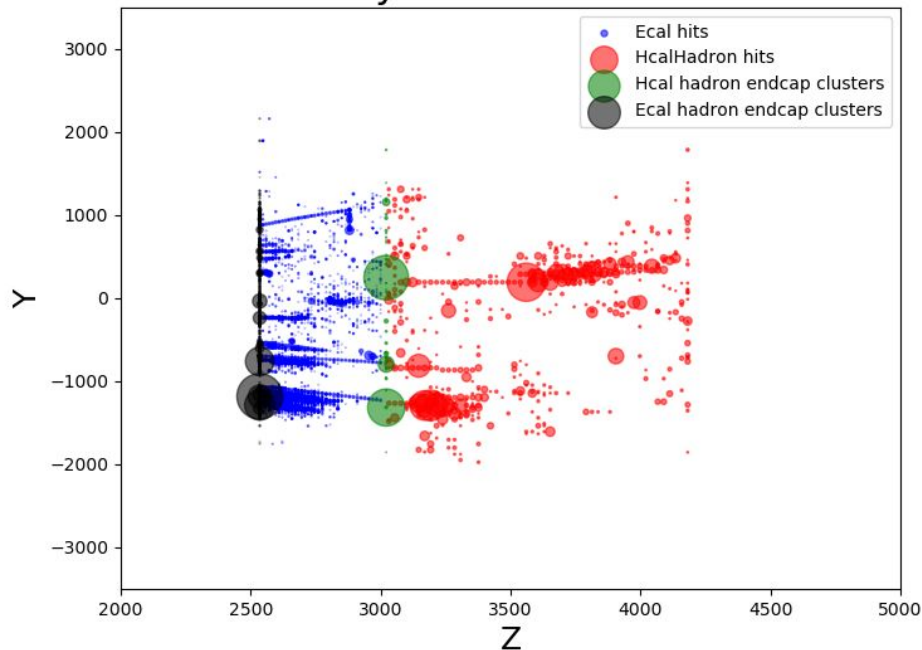
Status of HCAL Model and reconstruction Within DD4HEP

Miguel Arratia (UCR),
June 21h 2021
(T-163 days)

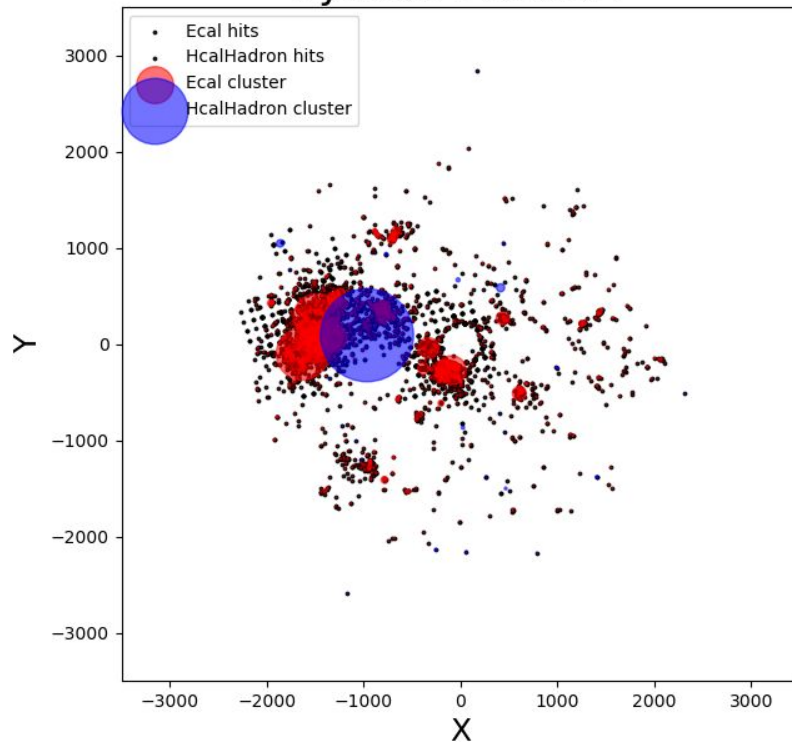


Checking that hit-merging, clustering for both Ecal and HCal

ATHENA simulation [DD4hep]
Pythia8+Geant4

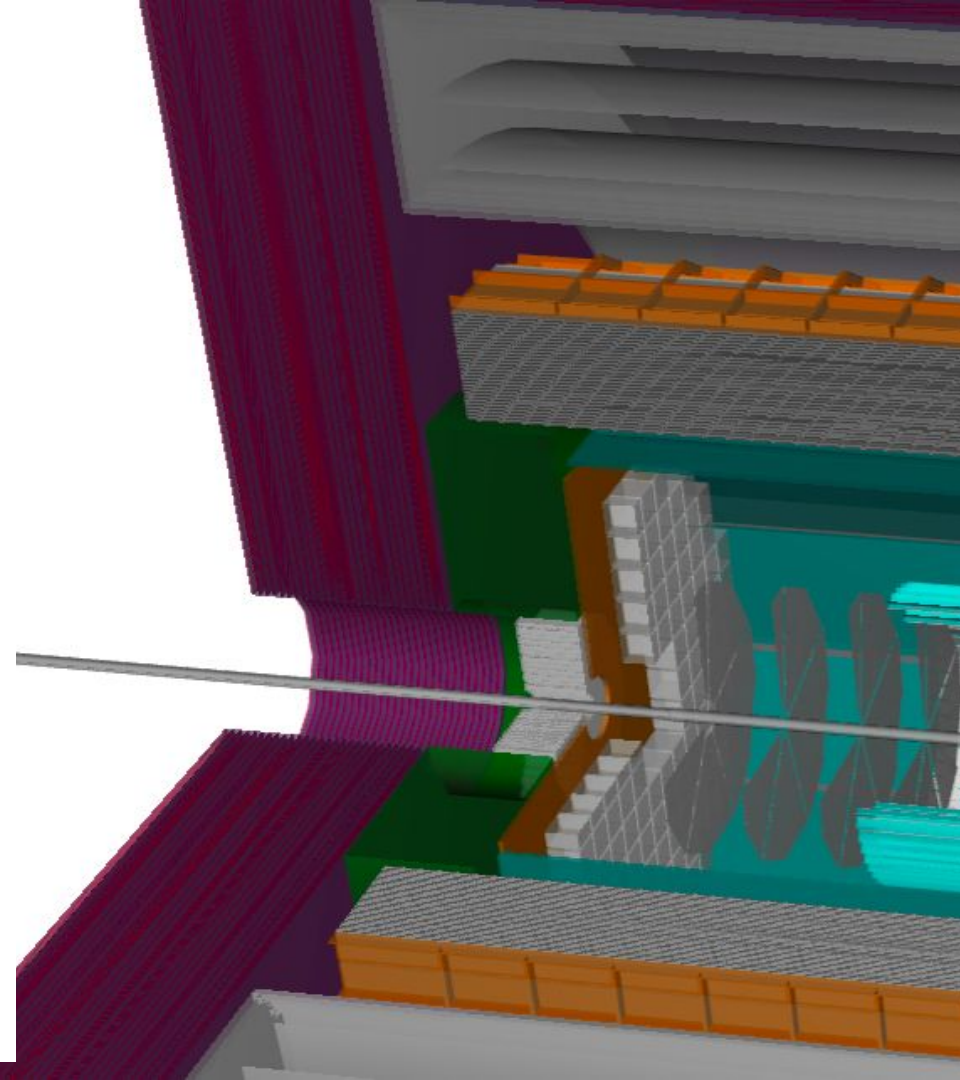
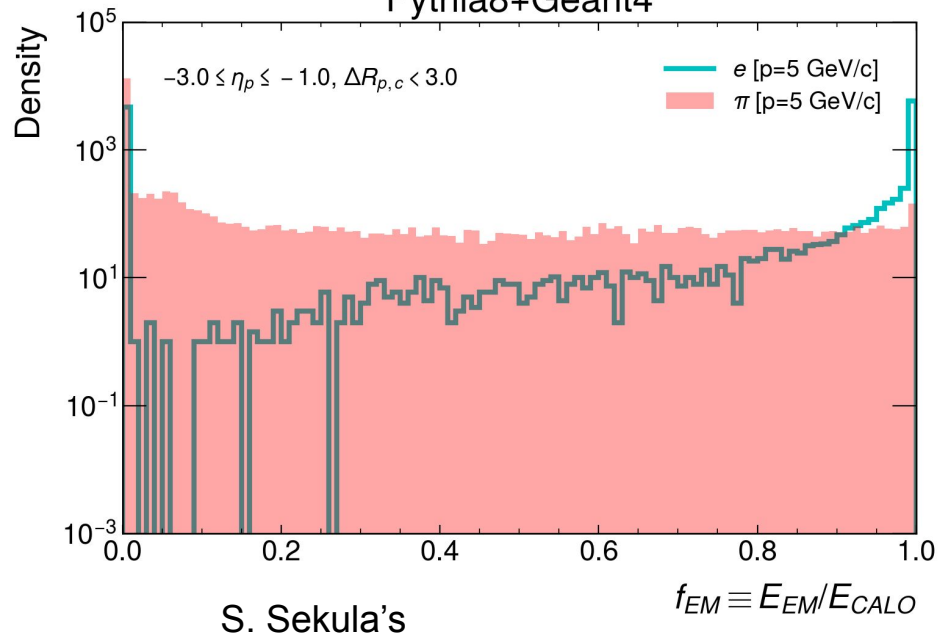


ATHENA simulation [DD4HEP]
Pythia8+Geant4

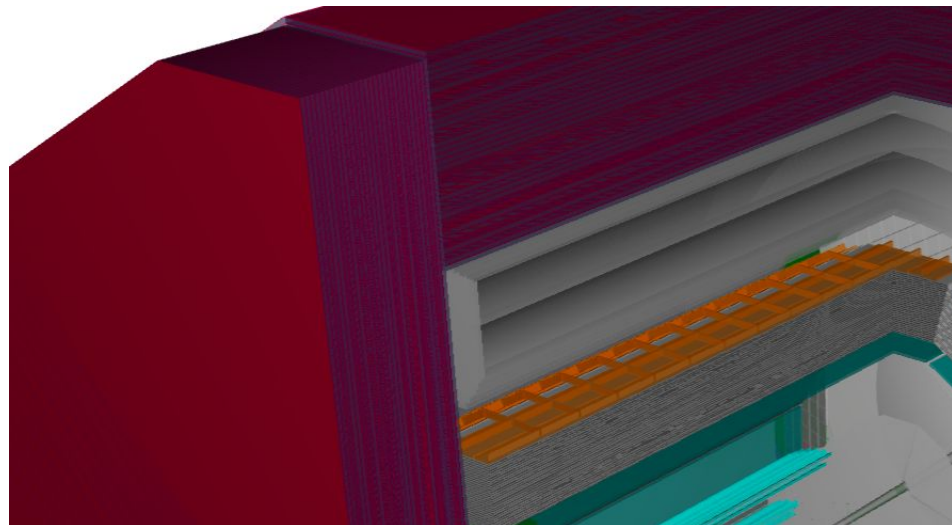
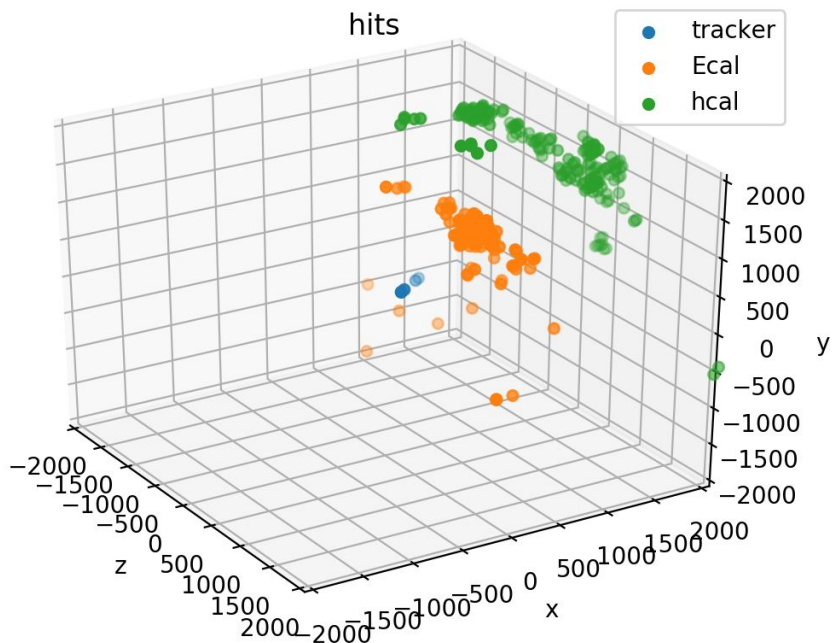


Electron-pion separation With HCAL

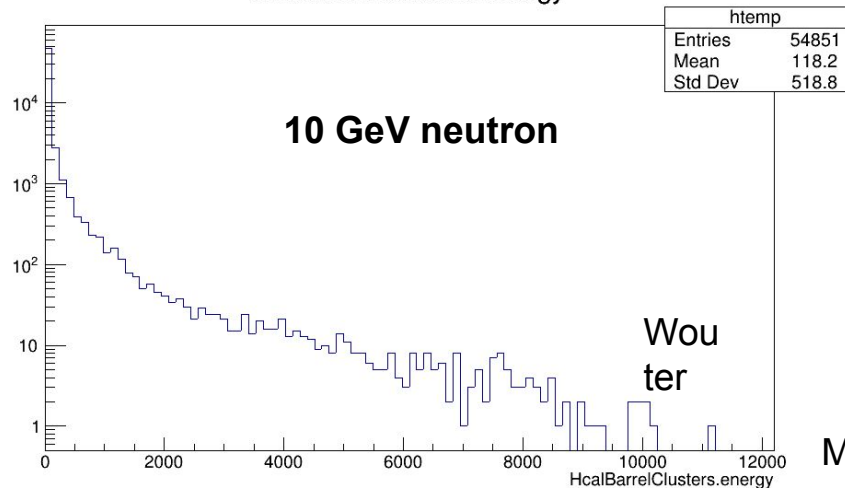
ATHENA simulation [DD4hep]
Pythia8+Geant4



Impact of magnet on barrel HCAL

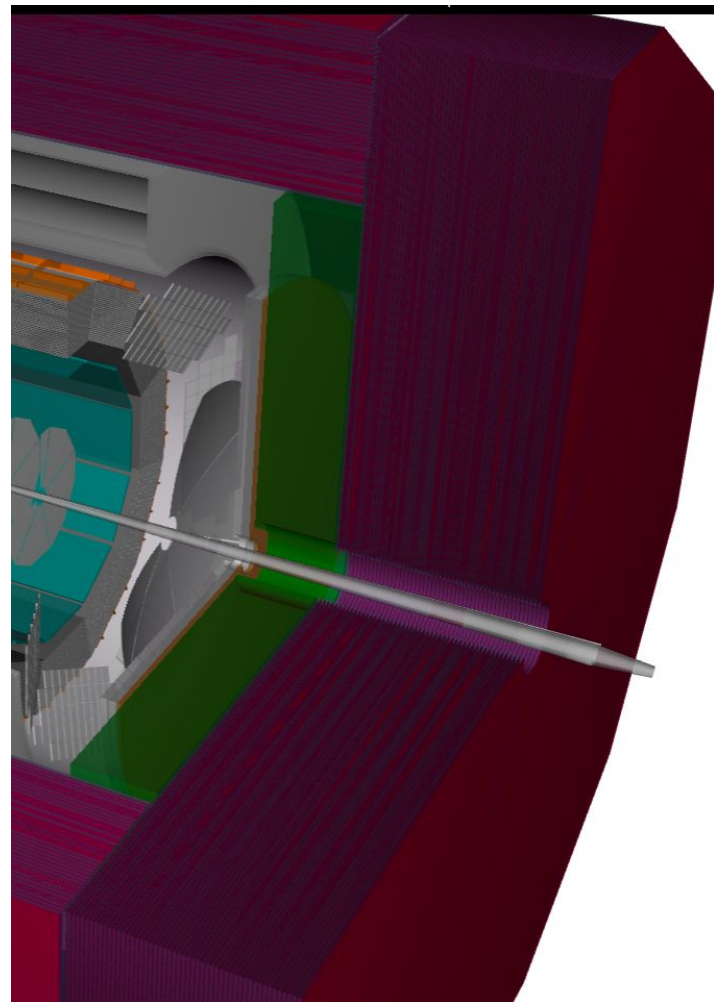
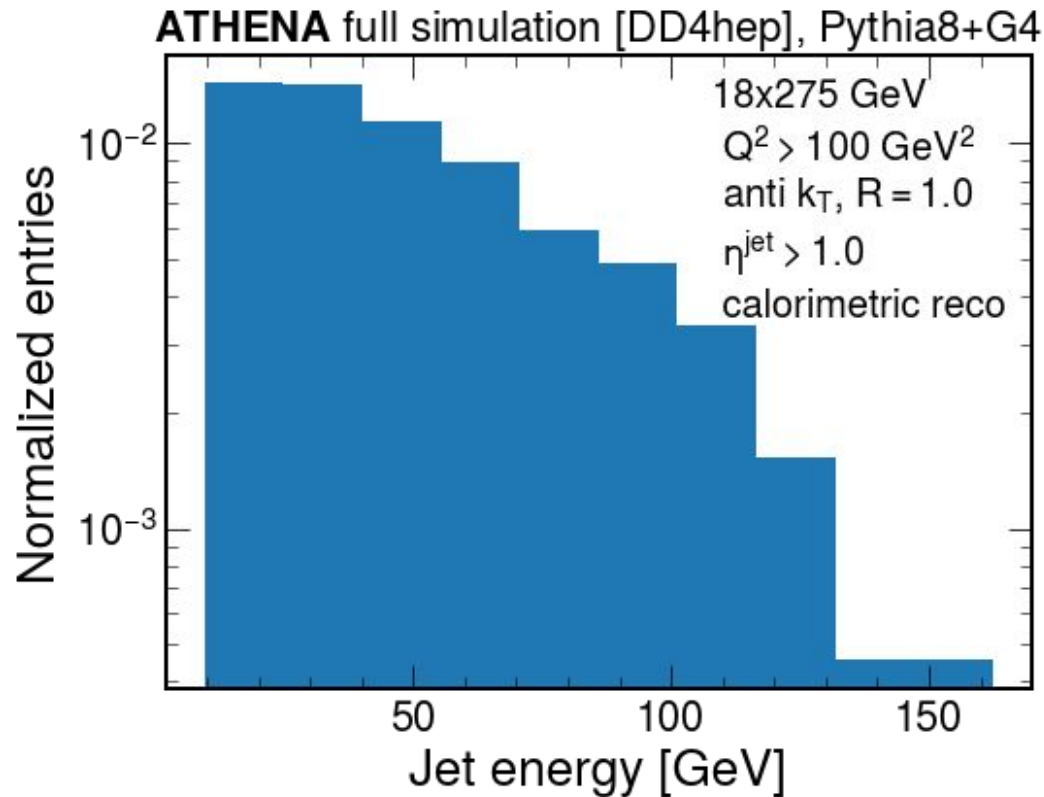


HcalBarrelClusters.energy



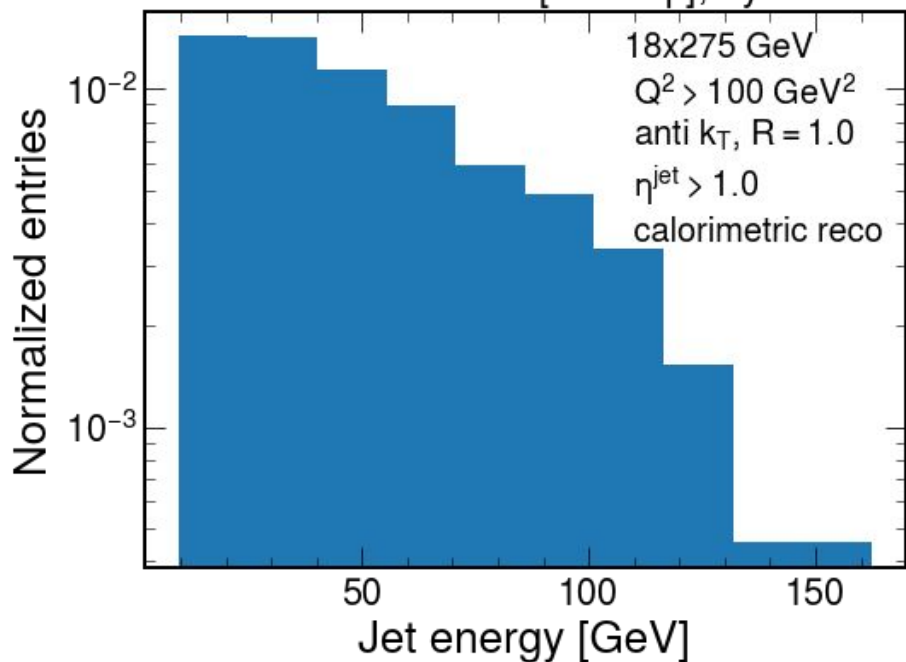
Jet reconstruction

With forward calorimeter system



First ATHENA jets (ECAL + HCAL)

ATHENA full simulation [DD4hep], Pythia8+G4



ATHENA full simulation [DD4hep], Pythia8+G4

