Heavy Ion Forest Links

➤ HI Forest setup

  ⇨ https://twiki.cern.ch/twiki/bin/viewauth/CMS/HiForestSetup

➤ CMSSW forest maintenance

  ⇨ https://github.com/CmsHI/cmssw

    ➜ check the branches

➤ HI Forest tutorial (in 2018 PbPb by Jussi, similar for other systems)

  ⇨ https://twiki.cern.ch/twiki/bin/view/CMS/HiForestTutorial

➤ In this slides, 2016 pPb 8.16 TeV forest setup was used (adapted from official code)

  ⇨ https://github.com/denerslemos/JetSmallSystems/tree/pPb/HiForest

    ➜ Includes event plane information

What we have in forest?

/Users/ddesouza/HiForestAOD_9.root

- hltanalysis;1 → Trigger bits (true or false) and prescale
- ggHiNtuplizer;1
- ggHiNtuplizerGED;1 → Electron, gamma and muons
- checkflattening;1 → Event plane information in 2016 pPb
- skimanalysis;1 → Event filters
- hiEvtAnalyzer;1 → Event quantities (like centrality and ...)
- HiGenParticleAna;1 → GEN particle information (MC only)
- ak3PFJetAnalyzer;1
- ak4PFJetAnalyzer;1
- akPu3PFJetAnalyzer;1
- akPu4PFJetAnalyzer;1
- ak4CaloJetAnalyzer;1
- akPu4CaloJetAnalyzer;1
- akCs3PFJetAnalyzer;1
- akCs4PFJetAnalyzer;1
- akSoftDrop4PFJetAnalyzer;1
- akSoftDropZ05B154PFJetAnalyzer;1
- akCsSoftDrop4PFJetAnalyzer;1
- akCsSoftDropZ05B154PFJetAnalyzer;1
- hiFJRhoAnalyzer;1
- pfcandAnalyzer;1
- anaMET;1
- HiForest;1
- ppTrack;1
- runAnalyzer;1
- hltobject;1

Jets (RECO and GEN for MC as well)

Particle flow candidates

Missing energy

Forest informations

Tracks

Informations like GT and versioning

Trigger objects

2