

Lepton analysis tree request of PWG disk Space

Disk space

Files: anaTree.root files

Size: 13 TB. Including P15ic MB 4T(low,mid), and HT 3T (low,mid,high). P16id MB 4T, HT 2T. Once P16id re-production is completed, P15ic sample will be removed.

Production information

Year: 2014

Period: day 77-167

Species: Au+Au

Energy: 200 GeV

Trigger: AuAu_200_production_low/mid/high_2014

Production: P15ic and P16id

Library: SL15c and SL16d

Data stream: st_physics

Physics analysis

This is the Au+Au 200 GeV skimmed analysis trees for Au+Au 200 GeV in Run14. MB and HT events are saved in the trees. Electrons, muons, photonic electron pairs, and dilepton pairs are roughly identified and saved in the tree. Non-photonic electron, NPE-h correlation, single lepton, e-mu, and quarkonia studies are based on those trees.

Analysis production

Trigger:

450014, 450024 // VPDMB-5-nobsmd

450008, 450018 // VPDMB-5

450010, 450020 // VPDMB-30

450201, 450211 // BHT1*VPDMB-30

450202, 450212 // BHT2*VPDMB-30

450203, 450213 // BHT3

Event-level cuts:

- RefMult \geq 0
- $|V_x| > 1e-5$, $|V_y| > 1e-5$, $|V_z| > 1e-5$
- $|V_z| < 100$ cm, $|v_r| < 2$ cm.

File description:

Main Branches	Usage
StEventHeader	Event information
StElectronTrack	Primary electrons with TOF and BEMC information
StMuonTrack	Muons with TOF and MTD information
StPartElectronTrack	Partner electrons in photonic electron pairs
StEEMuPair	Electron pairs with topological information
StEMuPair	E-muon pairs with topological information
StMuMuPair	Muon pairs with topological information

Production code is at :

<https://github.com/bingchuhuang/anaTree/tree/master/StPicoAnaTreeMaker>