

2011 legacy menu validation

- Old 2011 menu (from CMSSW_4_4_5_patch3, 5e33) ported to CMSSW_5_3_11_patch3
- Full ported trigger menu can be found here : `~alebihan/public/LegacyMenu_21-08.txt` (taken from confDB, /online/collisions/2011/5e33/v3.5/HLT/V*)
- Paths involving b-tagging : see next slide and <https://indico.cern.ch/conferenceDisplay.py?confId=256438>
- Paths using lepton in jets (B-tag POG) : HLT_BTagMu_DiJet*_Mu5_V*
- So far code of trigger menu only checked “by eye”, see last slides of <https://indico.cern.ch/conferenceDisplay.py?confId=256440>
- Relval samples :
 - target : <https://hypernews.cern.ch/HyperNews/CMS/get/datasets/2603.html>
 - reference relval : <https://hypernews.cern.ch/HyperNews/CMS/get/datasets/2645.html>

List of 'BTag' triggers

in

[/online/collisions/2011/5e33/v3.0/HLT/V6](#)

[HLTrigger/Configuration/python/HLT_GRun_cff.py](#) CMSSW_445_p3

- BTag = cms.vstring('HLT_BTagMu_DiJet20/40/70/110_Mu5_v14',
- ElectronHad = cms.vstring(
'HLT_Ele25_CaloldVT_CalIsoT_TrkIdT_TrkIsoT_CentralJet30_BTagIP_v9',
'HLT_Ele25_CaloldVT_TrkIdT_CentralJet30_BTagIP_v13',
- MET = cms.vstring('HLT_DiCentralJet20_BTagIP_MET65_v11',
'HLT_R014_MR200_CentralJet40_BTagIP_v4',
'HLT_R014_MR200/400/450_CentralJet40_BTagIP_v4',
'HLT_R020_MR300/350_CentralJet40_BTagIP_v4',
'HLT_R030_MR200/250_CentralJet40_BTagIP_v4',
- MuHad = cms.vstring('HLT_IsoMu17_eta2p1_CentralJet30_BTagIP_v6',
'HLT_Mu12_eta2p1_DiCentralJet20_BTagIP3D1stTrack_v6',
'HLT_Mu12_eta2p1_DiCentralJet20_DiBTagIP3D1stTrack_v6',
'HLT_Mu17_eta2p1_CentralJet30_BTagIP_v6',
- MultiJet = cms.vstring('HLT_CentralJet46_CentralJet38_DiBTagIP3D_v7',
'HLT_CentralJet60_CentralJet53_DiBTagIP3D_v6',
'HLT_DiCentralJet36_BTagIP3DLoose_v5',

B-tag POG

single top

SUSY

Higgs

Validation of new paths

- We are currently modifying some paths changing the primary vertex reconstruction (FastPV instead of pixelPV)
- So far only timing tested, trying to use Igor's framework to test the modifications
- More generally validation should be automated and all paths involving B-tagging and from B-tag POG should be monitored