

# Status

- Slimmed and downloaded all of run 179710 (  
● `/unix/atlas3/jmonk/jets/run/data11_slimmed.dat`)
- Probably missing everything for jet cleaning, so will need re-slim at some point.
- Implemented triggering strategy, including extraction of chain prescales from D3PD metadata
- Tidied up Utils.hh for functions like `deltaR`, `deltaPhi`...
- Proto-analysis in `/unix/atlas3/jmonk/jets/run/InclusiveJets.cxx`



# ChangeLog

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ChangeLog
1 2012-06-05 James Monk <jmonk@cern.ch>
2  * ForIA/TriggerConfiguration.hh and src/TriggerConfiguration.cxx: Method for chain prescale, lower chain name, L1 prescale
3  * ForIA/IFourMomentum.hh: Sorting structs inherit from Comparison interface
4  * ForIA/D3PDTree/TrigConfTree.hh: Add lower chain name
5  * ForIA/D3PDTree/LinkDef.h: Add std::map<string, string>
6  * macros/slimD3PD.py: include trigger metadata in slimming
7  * src/D3PD/D3PDConverter.cxx: include L1 and lower chain names
8
9 2012-05-31 James Monk <jmonk@cern.ch>
10 * ForIA/IFourMomentum.hh: Add px(), py() and pz() methods to interface
11 * implement the above for all IFourMomenta
12 * ForIA/AnalysisTools/OffsetEtaJES/TString.hh: Removed - who put that in there!?
13   TLorentzVector.hh: Ditto!
14 * doc/Doxyfile: Remove building documentation for analyses, D3PDTree library.
15   Will add back as separate docs
16 * ForIA/Utils.hh: Remove px, py and pz methods, replace with IFourMomentum::px, py and pz. Tidy up other utils.
17
18 2012-05-30 James Monk <jmonk@cern.ch>
19 * ForIA/Jet.hh and src/Jet.cxx: Add rapidity method to Jet
20 * src/EventLoop.cxx: tidy up print out of event numbers
21 * ForIA/IFourMomentum.hh: Added structs for ordering momenta by pT
22
23 2012-05-29 James Monk <jmonk@cern.ch>
24 * ForIA/Track.hh: Add BAD_AUTHOR the list of track authors and make it default
25 * ForIA/D3PDTree/TrackTree.hh: Add method haveSeedFinder() to return whether this D3PD contains the seed (author)
26 * src/D3PD/D3PDConverter.cxx: Only load author information if Tree contains it
27 * src/D3PDTree/Jet: Added D3PDTrees for Jet D3PDs.
28 * ForIA/D3PDTree/TrackVertexAssociationTree.hh: Add haveUnBiasedCoords() method
29   to return whether the D3PD contains the track coords relative to its own vertex
30 * ForIA/src/D3PDTree/Jet/JetTrackVertexAssociationTree.cxx: new implementation for Jet D3PDs
31
32 2012-05-25 James Monk <jmonk@cern.ch>
33 * Added ForIA/DetectorErrors.hh and src/DetectorErrors.cxx: class holding subdetector errors
34 * Added ForIA/D3PDTree/DetectorErrorsTree.hh: interface for loading info for above class from D3PD.
35 * Added src/D3PDTree/QCD/QCDDetectorErrorsTree.cxx: implementation of above for QCD D3PDs
36 * src/Event.cxx: Addition of method to get DetectorErrorsTree
37 * ForIA/Lockable.hh: Introduced Lockable type - idea is members can only be modified while creator is in scope
38 * Fix some warnings on missing virtual destructors, empty lines (warnings on individual analyses not fixed!)
39 * Add GRL for 2011 JetETMiss data share/GRL/2011/JetETMiss/data11_7TeV.periodAllYear_DetStatus-v36-pro10_CoolRunQuery-00-04-08_JetEtMiss.xml
40
41 2012-05-22 James Monk <jmonk@cern.ch>
42 * Remove headers from implementations of D3PDTrees
43 * Put D3PDTree implementations entirely within the .cxx files
44 * Fix annoying seg fault after calling help
45 * No longer install tclap
46 * Merge SimpleTruthParticle with TruthParticle. Remove and replace SimpleParticle
47 * Modify SimpleTruthSelection and MatchToTruth to account for the removal of SimpleParticle
48 * Do not load configuration file on class instantiation.
49   Allows loading of libraries when file not present.
50   ConfigurationFile will be removed in future
51 * Added TruthMassTree and TruthEnergyTree for loading mass and energy of truth particles
52 * UE/UEClusters.cxx shouldn't use D3PDTree directly
53
54
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# pT curve

- After weighting each jet by the correct trigger prescale, get plot on right
- Strange kink around 100 GeV
- No jet cleaning yet (~day to implement). Could be cause
- Trigger prescales also strange in that region (but checked against online menu records for that run)

