Hto4lEV Installation Recipe for ATLAS Release 12.0.6

The tag Hto4lEV-00-01-04 is compatible with the official EventView ATLAS release 12.0.6.

A1. How to get started

- i. Setup the ATLAS environment for rel. 12.0.6
- ii. Check out from CVS Users ATLAS Area (users/lagouri/Hto4lEV) the Hto4lEV package cvs co -r Hto4lEV-00-01-04 -d Hto4lEV users/lagouri/Hto4lEV
- iii. Checkout for offline release 12.0.6 the following tags:
    - 1. EventViewInserters-00-00-39:
        - cmt co -r EventViewInserters-00-00-39 PhysicsAnalysis/EventViewBuilder/EventViewInserters
    - 2. EventViewTrigger-00-00-16:
        - cmt co -r EventViewTrigger-00-00-16 PhysicsAnalysis/EventViewBuilder/EventViewTrigger
    - 3. EventViewUserData-00-00-58:
        - cmt co -r EventViewUserData-00-00-58 PhysicsAnalysis/EventViewBuilder/EventViewUserData
    - 4. EventViewConfiguration-00-00-52:
        - cmt co -r EventViewConfiguration-00-00-52 PhysicsAnalysis/EventViewBuilder/EventViewConfiguration
    - 5. TrackIsololationTools-00-00-12:
        - cmt co -r TrackIsolationTools-00-00-12 Reconstruction/RecoTools/TrackIsolationTools

- iv. Copy from Hto4lEV to
    - EventViewInserters: EVElectronIserter.h, .cxx, EVMuonInserter.h, .cxx
    - EventViewTrigger: ElecIsol.h, .cxx, MuIsol.cxx, h
- v. Source the Hto4l environment and then run
    - cd /Hto4lEV/cmt
    - cmt source setup.sh
    - cd ../run
    - athena.py Hto4lEV_jobO.py

A2. Inside Hto4lEV-Package Contents

You can see the code in CVS repository at CVS Users ATLAS Area: Hto4lEV

The contents of Hto4lEV package is the following:

- ***Hto4lEV/run***: Where jobOption files are stored. The Hto4lEV jobO files can be found here. The directory where you can run your jobO.
- ***Hto4lEV/python***: Consists of python modules each of which is a sequence of tools.
- ***Hto4lEV/src***: This is the place to implement C++ tools specific to Hto4l analysis.
- ***Hto4lEV/include***: This is the place for header files for the C++ tools specific to Hto4l analysis.
- ***Hto4lEV/cmt***: Manages dependencies, (setup and compilation of the package).

- ***MatchRecoElectrons1_module.py***: match Reco Electron1 objects to Truth Electron1 objects
- ***MatchRecoElectrons2_module.py***: match Reco Electron2 objects to Truth Electron2 objects
- ***MatchRecoMuons1_module.py***: match Reco Muon1 objects to Truth Muon1 objects
- ***MatchRecoMuons2_module.py***: match Reco Muon2 objects to Truth Muon2 objects

- ***MatchRecoMuons_module.py***: match Reco Muon objects to Truth Muon objects
- ***MatchRecoElectrons_module.py***: match Reco Electron objects to Truth Electron objects
- ***MatchTruthElectrons_module.py***: match Truth Electron objects to Reco Electron objects
- ***MatchTruthMuons_module.py***: match Truth Muon objects to Reco Muon objects

Inserter Modules

- ***EVElectronInserter***: Added the IsolPCut and the Sd0Cut for track isolation selection
- ***EVMuonInserter***: Added the IsolPCut and the Sd0Cut for track isolation selection

Tools based on EVUDObjCalcBaseT

- ***ElecIsol***: calculate the d0/overd0Error and the TrackIsolP for the Electron Track Particle
- ***MuIsol***: calculate the d0/overd0Error and the TrackIsolP for the Combined Muon Track Particle

-- TheodotaLagouri - 18 May 2008

This topic: Main > Hto4lEV
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