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# manTree SFrame Code for Top Acceptance Challenge

# Introduction

Here you can find instructions for setting up & running the code for the top acceptance challenge.

# Installation

Please ensure you have setup SFrame and manTree according to these instructions. You then need to checkout and compile a couple of packages:

```
export CVSROOT=:gserver:username@isscvcs.cern.ch:/local/reps/atman
export CVS_RSH=ssh
cd $SFRAME_DIR
cvs co -d manTreeSFrameBase SFrame/manTreeSFrameBase
cd manTreeSFrameBase
make
cd ..
cvs co -d PlottingUtil SFrame/PlottingUtil
cd PlottingUtil
make
cd ..
cvs co -d topSel -r topSel-01-00-03 SFrame/topSel
cd topSel
make
```

The manTreeSFrameBase package provides a base class that connects all the standard trees. The PlottingUtil package provides some useful classes for making histograms. The topSel package contains the actual code to run the selections.

# Running

## Di-muon

You can run the di-muon selection like:

```
cd $$FRAME_DIR
cd topSel
sframe_main config/TopDiMu_config.xml
```

You should get a print out of numbers of events passing the cuts and a root file TopMuMuSel.TTbarSingleFile.Reco.root containing some histograms. The config file runs on a single ttbar MC file. If you edit the config file, then you can enable running on the data.

## Single Electron

You can run the single-electron selection like:

```
cd $$FRAME_DIR
cd topSel
sframe_main config/TopSingleEle_config.xml
```

You should get a print out of numbers of events passing the cuts and a root file TopESel.TTbarSingleFile.Reco.root containing some histograms. The config file runs on a single ttbar MC file. If you edit the config file, then you can enable running on the data.

# GRL

Example of GRL usage can be found [here](#)

# CVS Tag description

The table describes what functionality was available in the different cvs tags:

Tag	Description
topSel-01-00-03	Single electron selection working
topSel-01-00-02	Di-muon selection working

-- MarkOwen - 16-Aug-2010

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