

This page is used to document the setup and running of the code that will be used for the 13 TeV Boosted TTH analysis.

Installation of Offline Code

```
export ATLAS_LOCAL_ROOT_BASE=/cvmfs/atlas.cern.ch/repo/ATLASLocalRootBase
alias setupATLAS='source ${ATLAS_LOCAL_ROOT_BASE}/user/atlasLocalSetup.sh'
setupATLAS
```

```
mkdir AnalysisTop_2.4.29
cd AnalysisTop_2.4.29
setupATLAS
rcSetup -u
rcSetup Top,2.4.29
```

```
rc find_packages
rc compile
```

```
rc checkout_pkg atlasphys-hsg8/Physics/Higgs/HSG8/AnalysisCode/TTHbbAnalysis/Releases/tags/Releases
rc checkout Releases/OnlinePackages.rc
rc find_packages
rc compile
```

Scripts to run Offline Code on batch cluster

- Make txt files with lists of root files
 - ◆ one txt file per process (ttbar, ttH, Wjets etc)
 - ◆ separate file lists for systematics, ljets, nominal only
- define variable list to write out in L2 tree
- define output folder, selection, etc
- run over trees and assign BDT weight for now
- write little python script to make control plots:
 - ◆ need again list of variables with binning and bin edges
 - ◆ loop over variables, read in trees, project into histogram
 - ◆ add over/underflow to last/first bin and reset over/underflow to zero
 - ◆ write out files with histograms for plotting in the next step
 - ◆ define in python script the proper labelling
 - ◆ use same colour coding as in TRexFitter:
ttbb, ttcc, ttlight, ttH, ttV, rest

-- AndreaKnue - 2017-04-29

This topic: Main > BoostedTTHOffline

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