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# RongkunXAODRelated

All my notes on xAODs.

ABTutorial[🔗](#): a good overview to start with.

# Keep updating!

CombinedPerformance tool: summary of CP tools

GoodRunList: to check for the newest grl for your data processing, pile up reweighting, etc.

## Release

All Release Twiki: list of recent releases.

Use acmSetup: Will Buttinger developed the tool for setting up release quickly.

offline software, for each release:

```
/cvmfs/atlas.cern.ch/repo/sw/software/21.2/AnalysisBase/21.2.58/InstallArea/x86_64-slc6-gcc62-opt
```

## Athena

xAOD code [🔗](#): gitlab link that cache xAOD code, used as class reference

AthAnalysisBase: Will's intro to Athena analysis base

AthenaCodeSnippets: Some of Will's experience about the coding in athena

## Tools

Sample Handler: a quick and easy way to manage all your datasets and their associated information.

## Grid

Pandabook: to look up your grid jobs.

# Some Technicalities

## EVNT to TRUTH1 (as of 2019-12-04)

This code below will transform a ATLAS EVGENT file to a TRUTH1 truth DxAOD derivation. Be patient. 10k events might take 10 minutes.

This is useful when you have rivet code you want to test against truth analysis code based on DxAOD

```
export ATLAS_LOCAL_ROOT_BASE=/cvmfs/atlas.cern.ch/repo/ATLASLocalRootBase
source ${ATLAS_LOCAL_ROOT_BASE}/user/atlasLocalSetup.sh
source $AtlasSetup/scripts/asetup.sh 21.2.55.0,AthDerivation,here
## truth ntuple
Reco_tf.py --inputEVNTFile EVNT.root --outputDAODFile test.pool.root --reductionConf TRUTH1
```

# Logbook

1. 20180103: rel 21.2.13 Event/xAOD/xAODTracking/Root/TrackParticlexAODHelpers.cxx can have "TrackParticle with zero or negative d0 uncertainty." error.

Solution: Try to catch that, set the d0sig for the muon to be -999, default value.

Reason: if you require at least the lowest muon quality, this error will not appear. So retrieve d0sig for muons at certain WP.

-- RongkunWang - 2019-12-04

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