

Working page Tau3Mu**Set up what you need to run some CMSSW stuff**

This works on lxplus in bash:

```
export SCRAM_ARCH=slc5_amd64_gcc462
source /afs/cern.ch/cms/LCG/LCG-2/UI/cms_ui_env.sh
scram p CMSSW CMSSW_5_2_0_pre5
cd CMSSW_5_2_0_pre5/src
eval `scram ru -sh`
cvs co -d MyAnalysis/Tau3Mu UserCode/cerminar/MyAnalysis/Tau3Mu
addpkg L1Trigger/Configuration V00-24-09
addpkg L1TriggerConfig/L1GtConfigProducers V03-00-10
addpkg FastSimulation/Configuration
scram b
```

In case you run < CMSSW 5xy, you also need

```
addpkg HLTrigger/btau
cp ~cerminar/public/HLTmmkFilter.cc HLTrigger/btau/src/
```

You may want to use the attached script to set up your stuff.

What HLT are you running

You need to edit `FastSimulation/Configuration/python/HLT_GRun_cff.py` and point it to some working cff hopefully dumped from ConfDB, e.g. put in that file just

```
# /dev/CMSSW_5_1_0/GRun/V26 (CMSSW_5_2_0_pre4_HLT8)
import FWCore.ParameterSet.Config as cms
#from FastSimulation.HighLevelTrigger.HLTSetup_cff import *
from MyAnalysis.Tau3Mu.HLTTauTrigger_ConfDB_TV5_cff import *
```

GEN and FASTIM Samples

GEN samples. The Tau3Mu and Phi2Mu samples ask for Ds with $P_t > 5\text{GeV}$ and force the decays to $\text{Tau} \rightarrow 3\mu$ and to $\text{phi pi} \rightarrow 2\mu \text{ pi}$ respectively. An acceptance cut requiring at least two muons within $\text{lethal} < 2.4$ and $P_t > 1\text{GeV}$ is placed. The MinBias2Mu sample just runs QCD processes ($\text{MSEL}=1$) without (files 0-99) cut on p_{that} and with cut $p_{\text{that}} > 5\text{GeV}$ (files 1-199), with dimuon acceptance filter as above.

```
/castor/cern.ch/user/g/guiducci/Tau3Mu/52x/DsPhi2Mu_GEN
/castor/cern.ch/user/g/guiducci/Tau3Mu/52x/DsTau3Mu_GEN_fix
/castor/cern.ch/user/g/guiducci/Tau3Mu/52x/MinBias2Mu_GEN
```

FastSim was run using `MyAnalysis.Tau3Mu.HLTTauTrigger_ConfDB_TV5_cff`, getting the following samples:

```
/castor/cern.ch/user/g/guiducci/Tau3Mu/52x/DsPhi2Mu_FASTSIM
/castor/cern.ch/user/g/guiducci/Tau3Mu/52x/DsTau3Mu_FASTSIM
/castor/cern.ch/user/g/guiducci/Tau3Mu/52x/MinBias2Mu_FASTSIM
```

Jobs and job outputs are also stored to the same directories.

Background printouts

From the sample `/castor/cern.ch/user/g/guiducci/Tau3Mu/52x/MinBias2Mu_GEN` we run our trigger with


```
| | |
| | | +-> pi0 <idx: 218>
| | | +-> gamma <idx: 352> gamma <idx: 353>
```

Event 4

```
| | | |
| | | | +-> B_sbar0 <idx: 81>
| | | | +-> nu_mu <idx: 147>
| | | | +-> mu+ <idx: 148>
| | | | +-> D*_s- <idx: 149>
| | | | +-> D_s- <idx: 192>
| | | | | +-> mu- <idx: 209>
| | | | | +-> nu_mubar <idx: 210>
| | | | | +-> eta' <idx: 211>
| | | | | +-> gamma <idx: 217>
| | | | | +-> rho0 <idx: 218>
| | | | | +-> pi- <idx: 219> pi+ <idx: 220>
| | | | +-> gamma <idx: 193>
```

Event 5

```
| | | |
| | | | +-> B*_c+ <idx: 102>
| | | | | +-> B_c+ <idx: 231>
| | | | | | +-> mu+ <idx: 396>
| | | | | | +-> nu_mu <idx: 397>
| | | | | | +-> B0 <idx: 398>
| | | | | | +-> nu_mu <idx: 545>
| | | | | | +-> mu+ <idx: 546>
| | | | | | +-> D*- <idx: 547>
| | | | | | +-> Dbar0 <idx: 591>
| | | | | | | +-> K0 <idx: 598>
| | | | | | | | +-> K_S0 <idx: 601>
| | | | | | | +-> pi- <idx: 599>
| | | | | | | +-> pi+ <idx: 600>
| | | | | | +-> pi- <idx: 592>
| | | | | +-> gamma <idx: 232>
(...)
```

```
| | | | +-> b <idx: 73>
| | | | | +-> string <idx: 190>
| | | | | +-> Lambda_b0 <idx: 191>
| | | | | | +-> nu_mubar <idx: 351>
| | | | | | +-> mu- <idx: 352>
| | | | | | +-> Lambda_c+ <idx: 353>
| | | | | | +-> pi0 <idx: 510>
| | | | | | | +-> gamma <idx: 587> gamma <idx: 588>
| | | | | | +-> p+ <idx: 511>
| | | | | | +-> K*bar0 <idx: 512>
| | | | | | +-> Kbar0 <idx: 589>
| | | | | | | +-> K_L0 <idx: 595>
| | | | | | +-> pi0 <idx: 590>
| | | | | | +-> gamma <idx: 596> gamma <idx: 597>
```

Event 6

```
| | | |
| | | | +-> Bbar0 <idx: 439>
| | | | +-> nu_mubar <idx: 740>
| | | | +-> mu- <idx: 741>
| | | | +-> D*+ <idx: 742>
| | | | +-> D+ <idx: 918>
| | | | | +-> mu+ <idx: 941>
| | | | | +-> nu_mu <idx: 942>
| | | | | +-> Kbar0 <idx: 943>
| | | | | +-> K_S0 <idx: 952>
| | | | +-> pi0 <idx: 919>
| | | | +-> gamma <idx: 944> gamma <idx: 945>
```

-- LuigiGuiducci - 28-Feb-2012

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