

# Software Review: Update

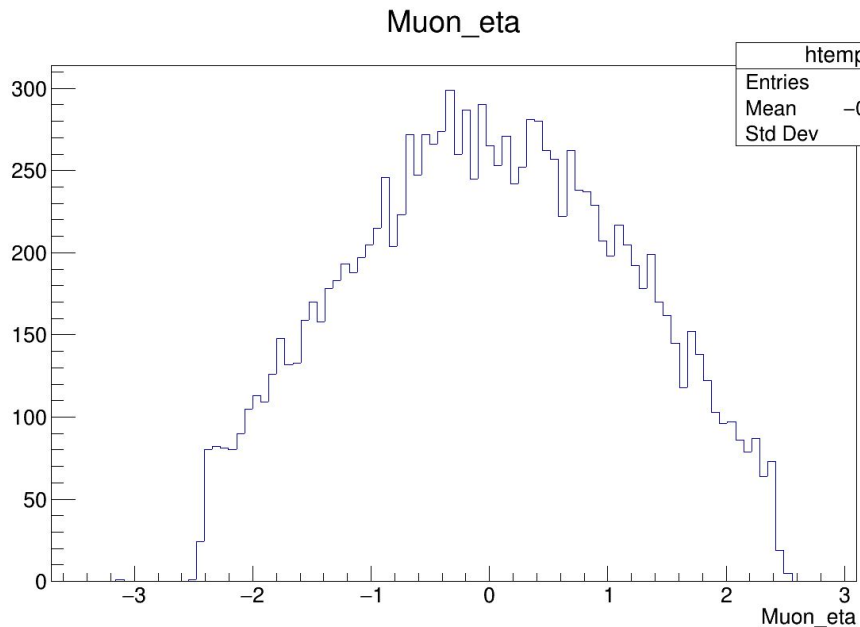
22 February 2021  
Benjamin Blancon

(Really) basic selection: 2 Muons with  $P_t > 20 \text{ GeV}$  and  $|\eta| < 2.4$  (correct value) and SS charge.

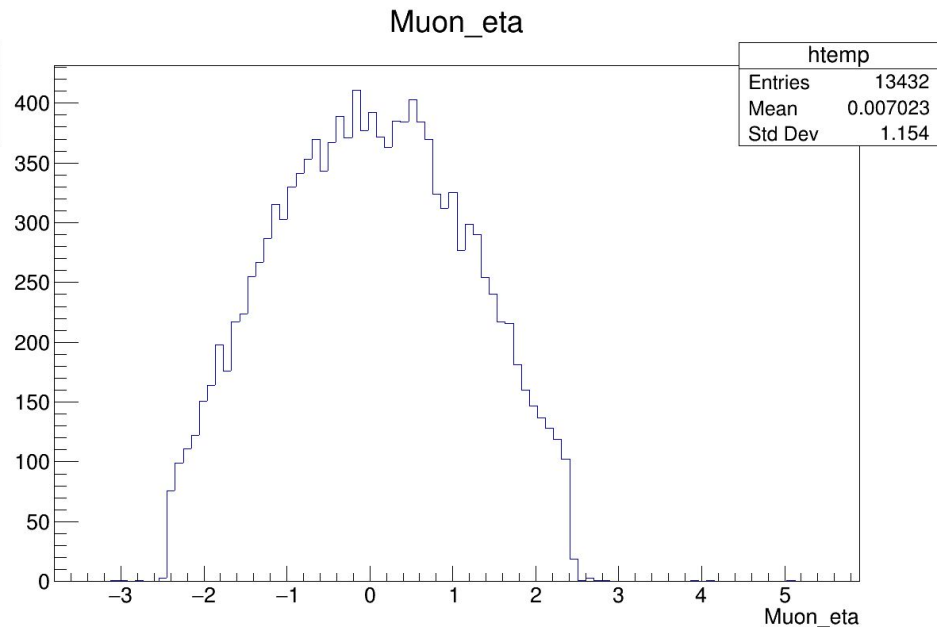
Dataset:

/TTTo2L2Nu\_TuneCP5\_13TeV-powheg-pythia8/RunIISummer20UL18MiniAODv2-106X\_upgrade2018\_realistic\_v16\_L1v1-v1/MINIAODSIM: ttbar (~15k Events).

**ISSUE:** some files don't pass the selection when modifying the  $\eta$  condition from 2.5 to 2.4.



Test file 1 (passes the selection)



Test file 2 (fails the selection)

Both files have events with  $\eta < 2.4$ .  $\longrightarrow$  Cause?

Skimmed files ask for  $|\eta| < 2.5$ , which is not the case above!  $\longrightarrow$  **TO CHECK.**

The problem is the same for the Pt, and especially when creating the skimmed files. → **TO CHECK.**

The selection works for Candan. → **Extra checks to do!**