

Software Review: Update

9 February 2021
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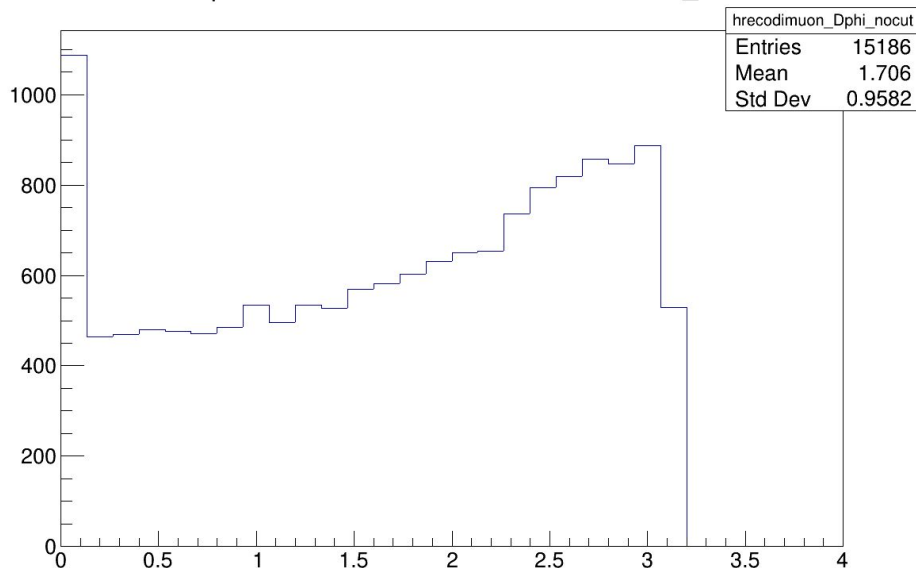
(Really) basic selection: 2 Muons with $P_t > 20$ GeV and $|\eta| < 2.4$ (need to be checked) and SS charge.

Dataset:

/TTTo2L2Nu_TuneCP5_13TeV-powheg-pythia8/RunIISummer20UL18MiniAODv2-106X_upgrade2018_realistic_v16_L1v1-v1/MINIAODSIM (~15k Events).

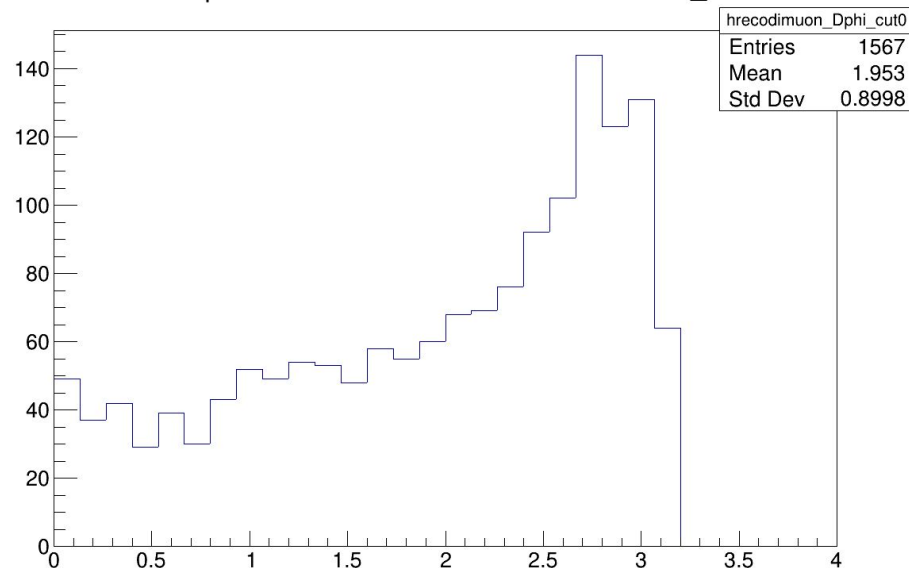
$\Delta\phi$ between the 2 muons

Delta phi between the 2 reconstructed Muons_nocut



Before the cut

Delta phi between the 2 reconstructed Muons_cut0

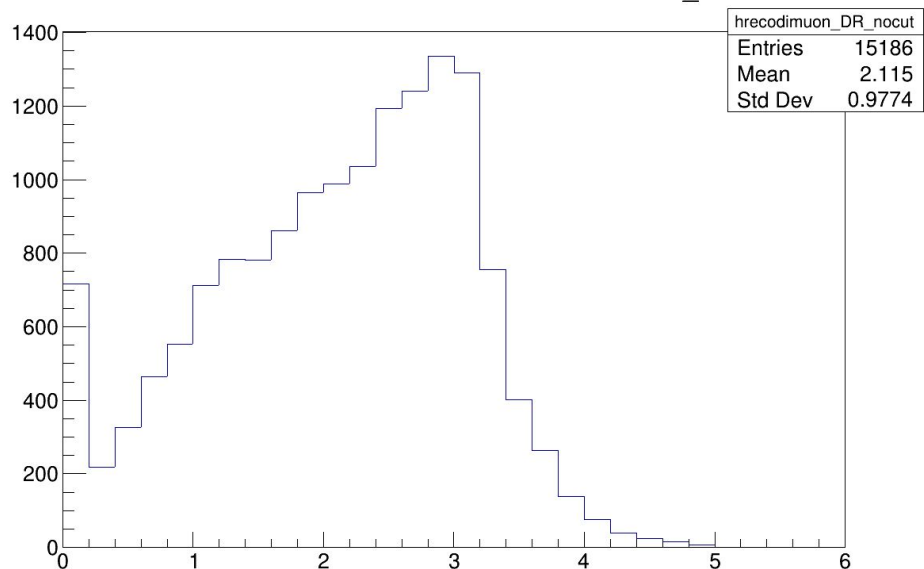


After the cut

The majority of events have the muons back to back as expected.

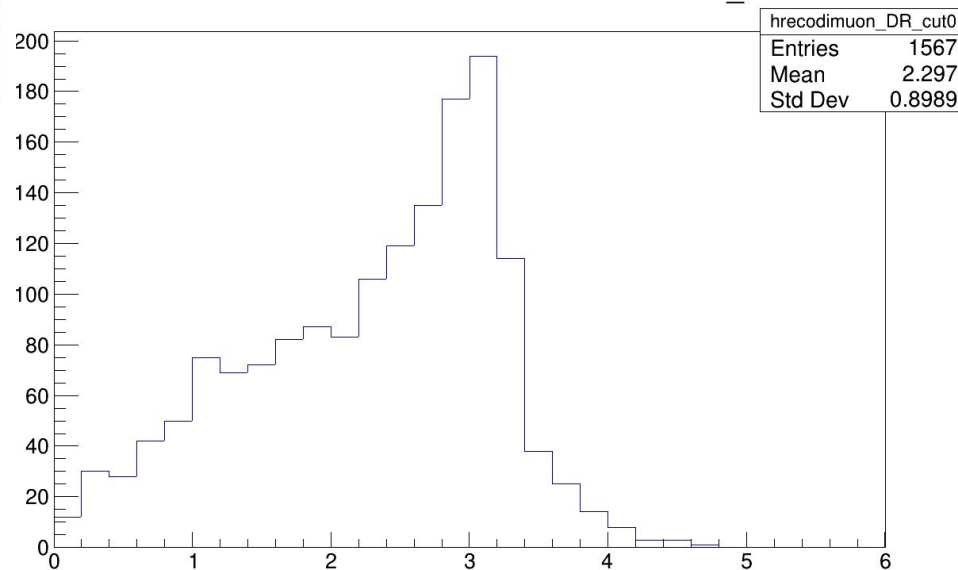
ΔR between the 2 muons

Delta R between the 2 reconstructed Muons_nocut



Before the cut

Delta R between the 2 reconstructed Muons_cut0



After the cut

No problem for the ΔR .