

# Adjustments to new Cosmic in Collisions scheme

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- Original source: *ctfWithMaterialTracksBeamHaloMuon*
- New source: *beamhaloTracks*
- Test sample available at */castor/cern.ch/user/m/musssgill/RERECO/TkAlBeamHalo.root*
  - Rereco of run 132569 (*/castor/cern.ch/user/m/musssgill/RERECO/rereco\_run132569.root*)
  - Filter on HLT path *TkAlBeamHalo* active during rereco
  - AlCaReco produced with standard config file plus new HLT filter

- Original source:
  - *ctfWithMaterialTracksP5* (ALCARECOTkAlCosmicsCTF)
  - *cosmictrackfinderP5* (ALCARECOTkAlCosmicsCosmicTF)
- New source: *regionalCosmicTracks*
- Test sample available at
  - */castor/cern.ch/user/m/mussgill/RERECO/TkAlCosmics.root*
  - */castor/cern.ch/user/m/mussgill/RERECO/TkAlCosmicsHLT.root*
  - Rereco of runs 128712 - 128713
  - */castor/cern.ch/user/m/mussgill/RERECO/rereco\_Cosmics\_\*.root*
- Remove ALCARECOTkAlCosmicsCosmicTF
- Do we need/want to rename ALCARECOTkAlCosmicsCTF?
- Will this work for dedicated cosmics runs?

- Original source:
  - *muonsBarrelOnly* (ALCARECOMuAlGlobalCosmics)
- New source: *muonsFromCosmics* / *muons*
- Test sample available at
  - */castor/cern.ch/user/m/mussgill/RERECO/MuAlGlobalCosmics\_muonsFromCosmics.root*
  - */castor/cern.ch/user/m/mussgill/RERECO/MuAlGlobalCosmics\_muons.root*
  - Rereco of runs 128712 - 128713
  - */castor/cern.ch/user/m/mussgill/RERECO/rereco\_Cosmics\_\*.root*

# Cosmics at 0T

- At 0T all cosmics have momentum of  $\sim 4.75$  GeV/c
- No need to have dedicated AlCaReco producer for 0T cosmics runs
  - „Regular“ producer has a minimum momentum cut of 4 GeV/c
  - No idea how things will change in case of new Cosmics In Collision scheme
- Used run 102130 (the only one I found in RR with 0T and Tracker „good“)
- Any idea where to get more statistics?

