

1. Generate a 13 TeV CMSSW dataset with full RECO and MC truth information for $pp \rightarrow Z/\gamma^* + X$, $Z/\gamma^* \rightarrow \mu\mu$ without pile-up in CMS.
2. Use the dataset generated in 1., and reconstruct the Z mass using
 - RECO muons
 - MC muons.

Plot both RECO and MC mass distributions in the same plot.

Hint: Use `edmDumpEventContent` to see what collections are available in the root file. Loop over RECO muons. Loop over MC info and choose muons which are close to the RECO muons. Sum the two muon four-vectors to get the mass.

Please make a tar-ball from your files and return it by email to sami.lehti@cern.ch.