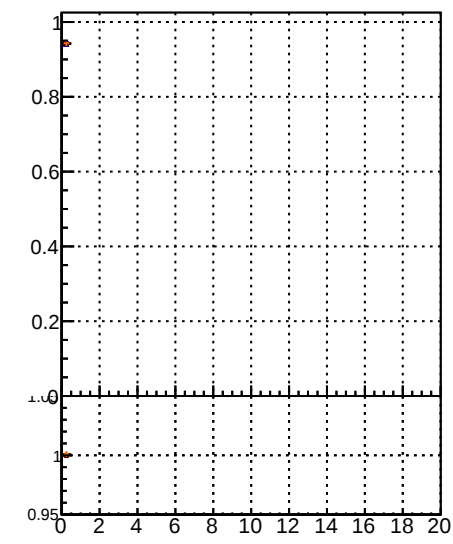
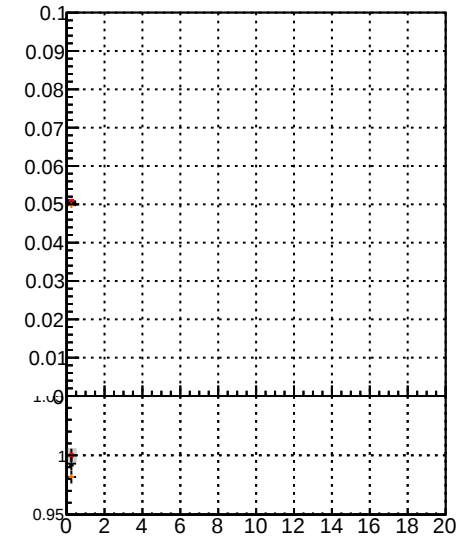


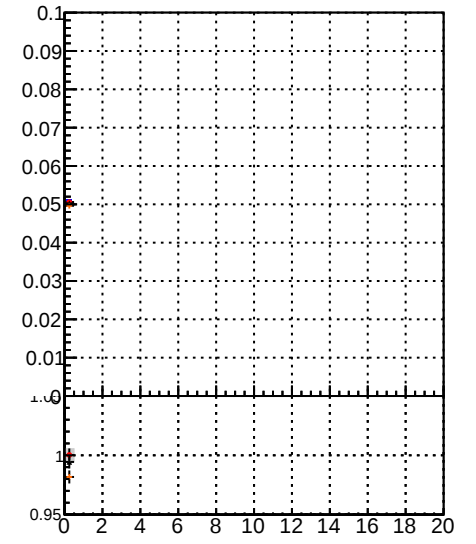
Fake rate vs. normalized χ^2



Duplicates Rate vs. normalized χ^2



Pileup rate vs. normalized χ^2



Fake rate vs. χ^2 for 2019

