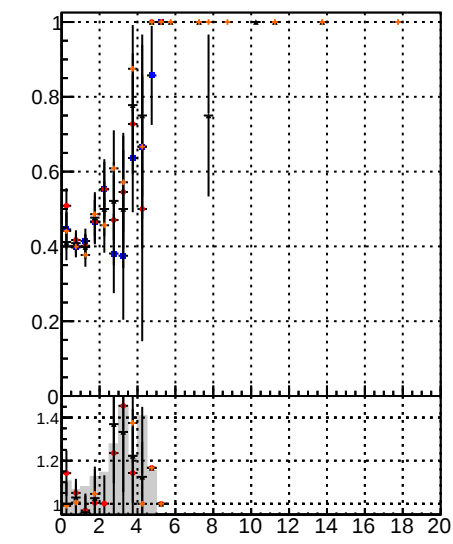


Fake rate vs normalized  $\chi^2$



Duplicates Rate vs normalized  $\chi^2$



Pileup rate vs normalized  $\chi^2$



Fake rate vs.  $\chi^2$  for BQM, SKE, BQMfit, BDT, and mKFit

