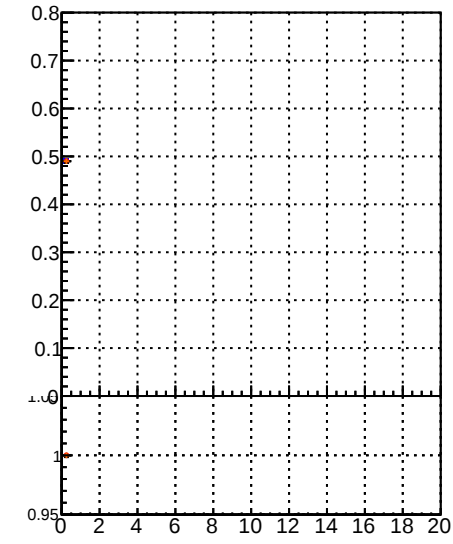
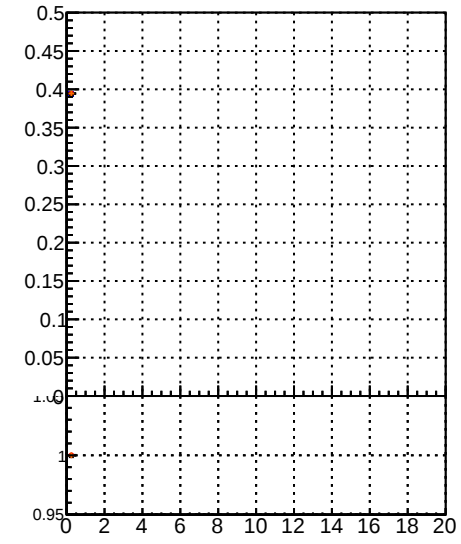


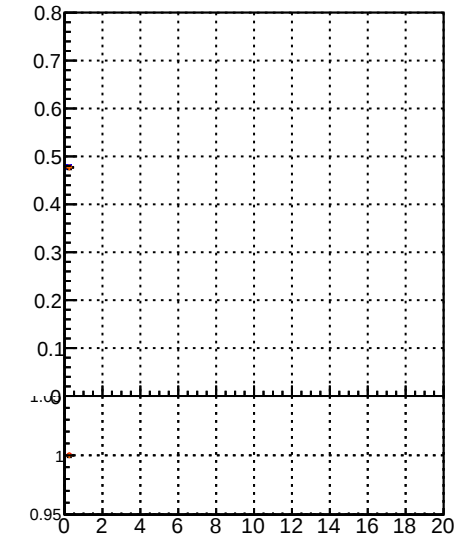
Fake rate vs normalized χ^2



Duplicates Rate vs normalized χ^2



Pileup rate vs normalized χ^2



Fake rate vs. χ^2 for BSM, MS, and data. The plot shows the fake rate (y-axis, 0.95 to 1.0) versus normalized χ^2 (x-axis, 0 to 20). The data points are clustered around a horizontal line at a fake rate of 1.0. The legend indicates the data series: BSM (blue), MS (red), and data (black).

