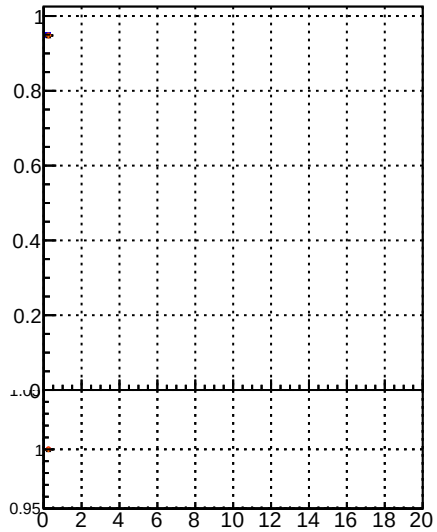
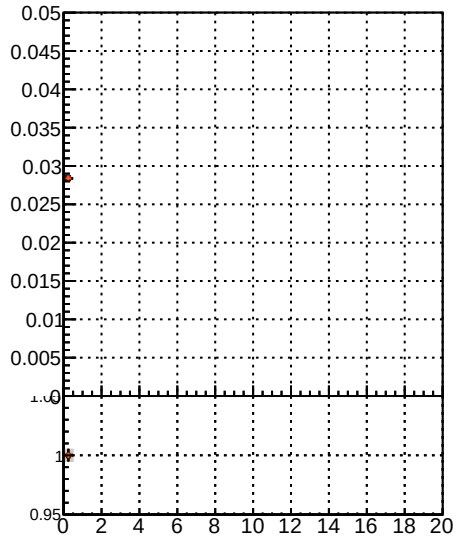


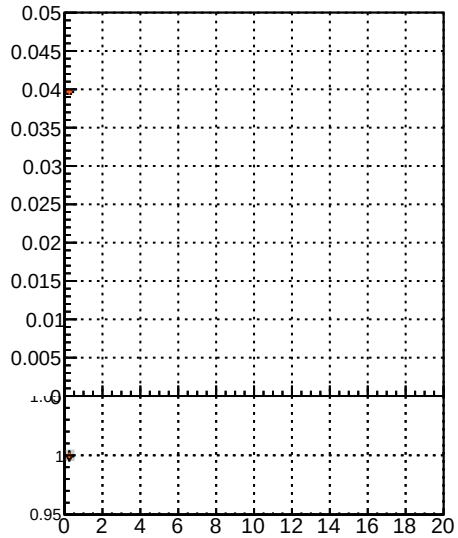
Fake rate vs normalized χ^2



Duplicates Rate vs normalized χ^2



Pileup rate vs normalized χ^2



Fake rate vs.  BSM TT MS detQ-dpdq
BSM TT MS detQ-chi2

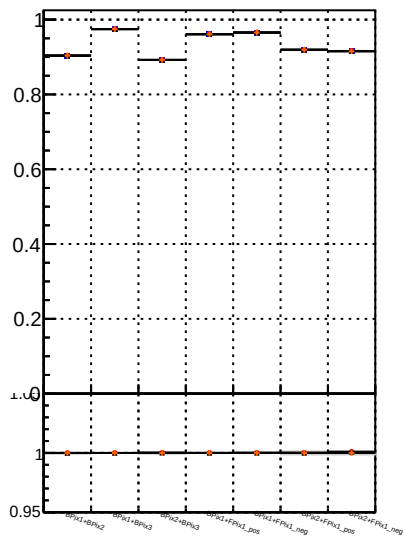


Figure 1 consists of two panels. The top panel plots the dark matter relic density parameter $\Omega_c h^2$ against the dark matter mass m_χ [GeV] on a logarithmic scale from 0.1 to 100. The y-axis ranges from 0.0 to 0.1. Data points are shown for various annihilation cross-sections: $\sigma_{\text{ann}} = 10^{-26} \text{ cm}^3/\text{s}$ (black), $10^{-25} \text{ cm}^3/\text{s}$ (red), $10^{-24} \text{ cm}^3/\text{s}$ (green), $10^{-23} \text{ cm}^3/\text{s}$ (blue), and $10^{-22} \text{ cm}^3/\text{s}$ (magenta). The bottom panel plots the ratio $\Omega_c h^2 / \Omega_c h^2^{\text{std}}$ against m_χ [GeV] on the same logarithmic scale. The y-axis ranges from 0.95 to 1.0. Shaded regions indicate the 1-sigma (lighter) and 2-sigma (darker) confidence intervals for the standard relic density. Data points are shown for the same annihilation cross-sections as the top panel.