

Data 3 and 4 TOF

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October 2023

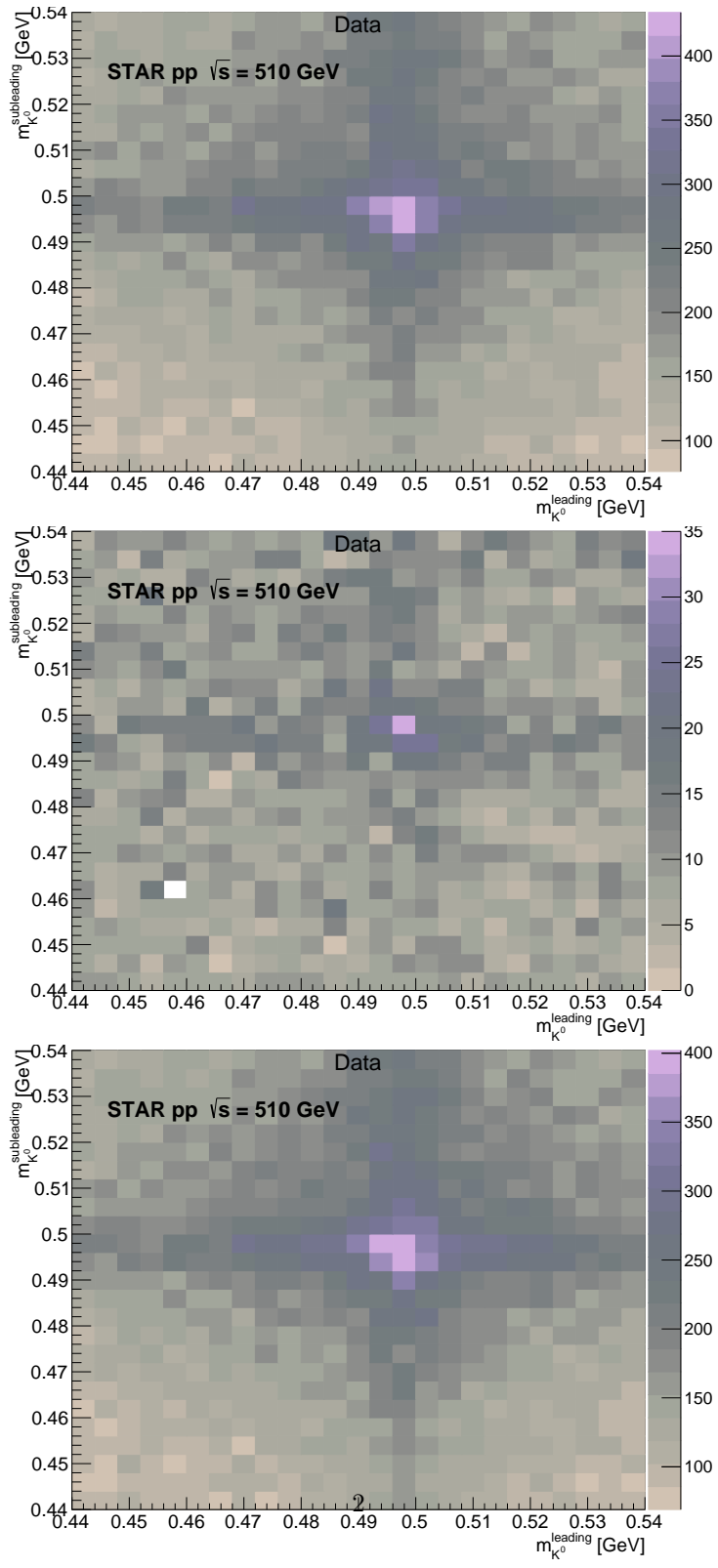


Figure 1: Leading vs sub-leading mass distribution - Data

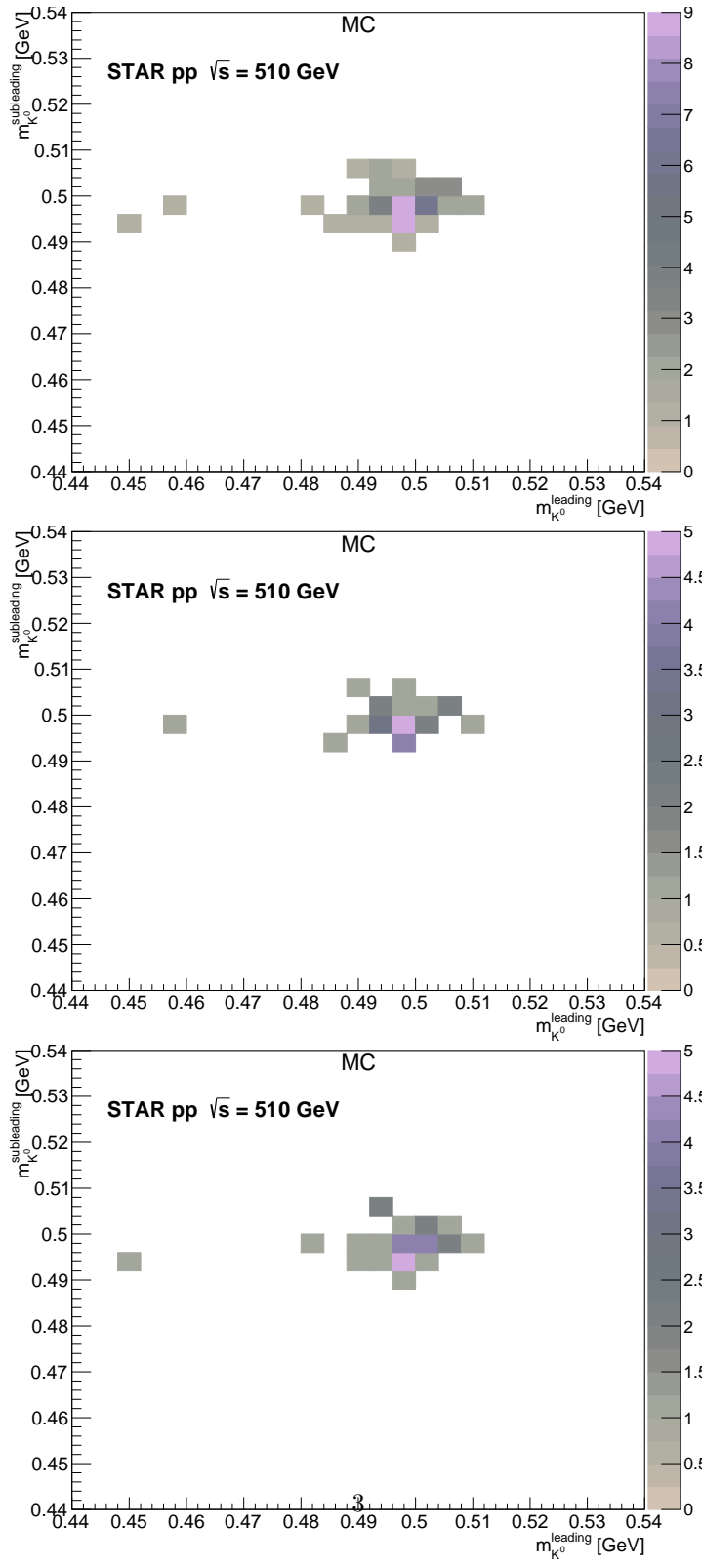


Figure 2: Leading vs sub-leading mass distribution - MC

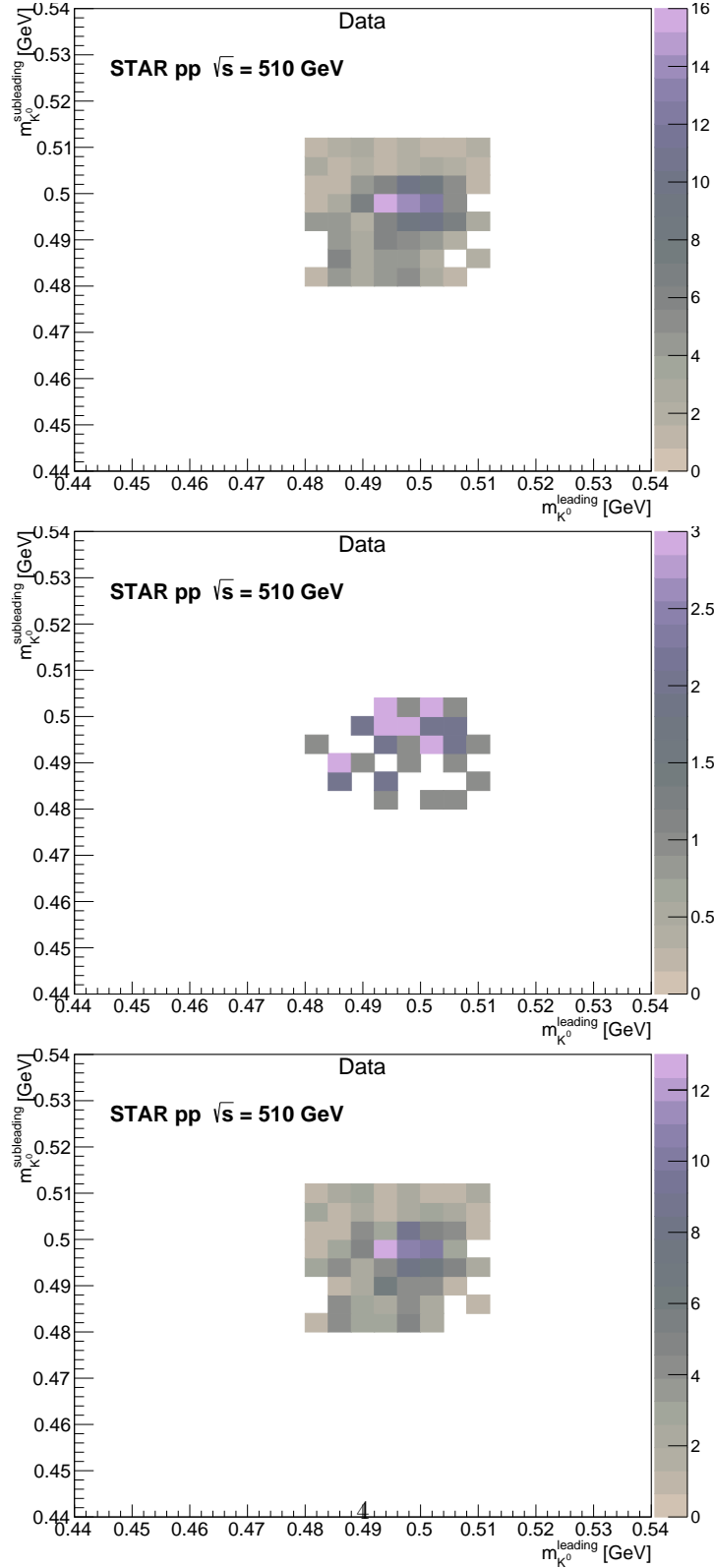


Figure 3: Leading vs sub-leading mass distribution - Data, Cuts: Narrow Mass Window, $p_T^{\text{miss}} \leq 0.15$ GeV, $N_{\text{TOF}}^{\text{cluster}} \leq 9$, $DCA_{\text{daughters}}^{\text{leading}} \leq 1.5$ cm, $DCA_{\text{daughters}}^{\text{subleading}} \leq 1.5$ cm, $vtx_{K^0 K^0}^{\text{dist}} \leq 1.5$ cm

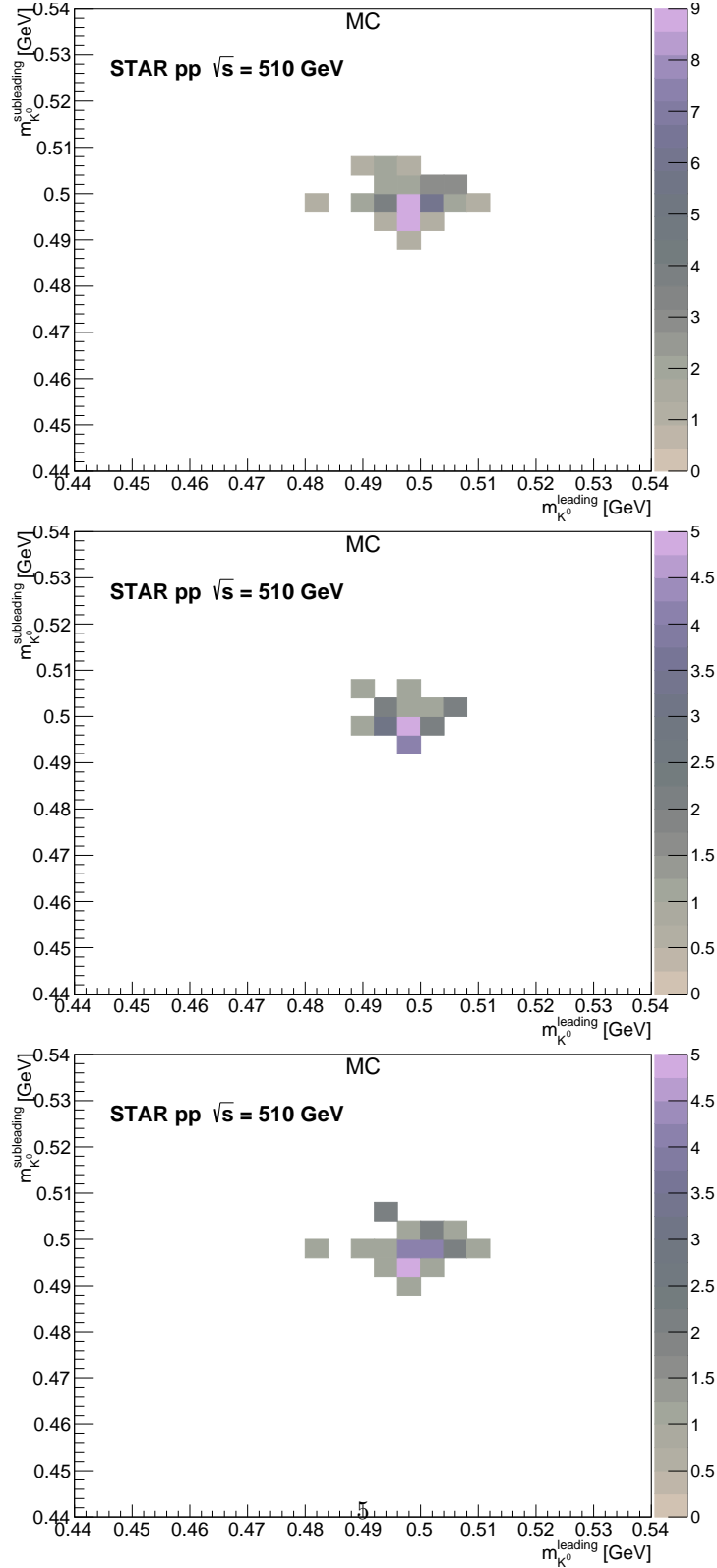


Figure 4: Leading vs sub-leading mass distribution - Data, Cuts: Narrow Mass Window, $p_T^{\text{miss}} \leq 0.15$ GeV, $N_{TOF}^{\text{cluster}} \leq 9$, $DCA_{\text{daughters}}^{\text{leading}} \leq 1.5$ cm, $DCA_{\text{daughters}}^{\text{subleading}} \leq 1.5$ cm, $vtx_{K^0K^0}^{\text{dist}} \leq 1.5$ cm

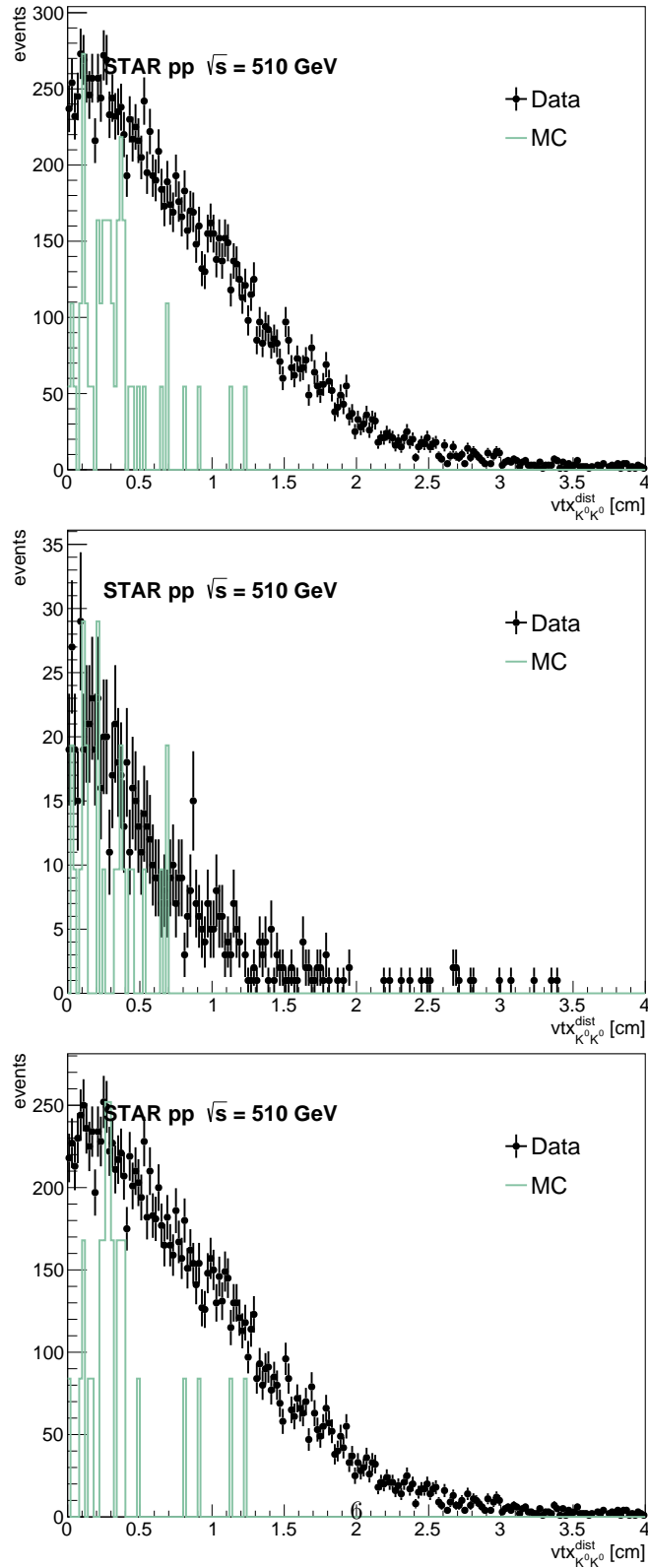


Figure 5: distance between K^0K^0 vertices, Cuts: Narrow Mass Window, MC was scaled to the maximum of the data

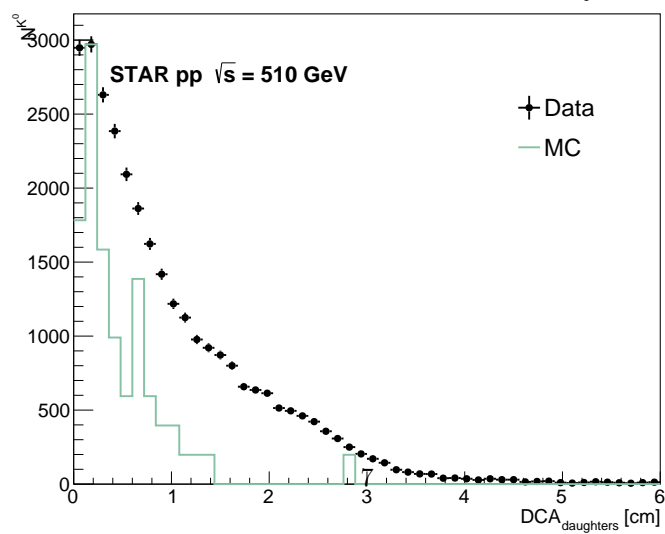
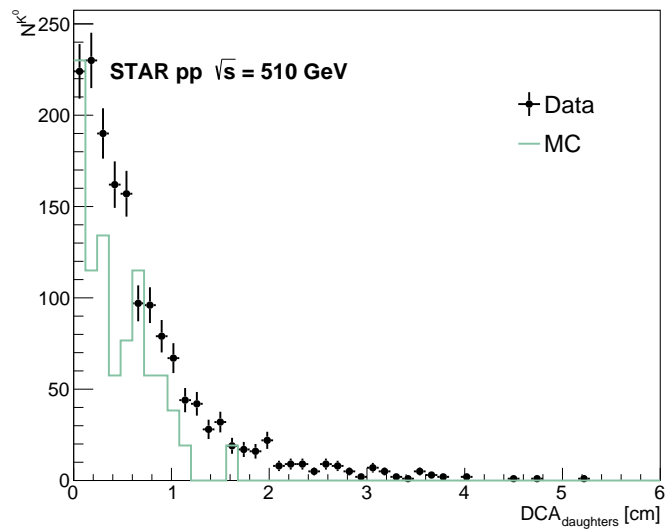
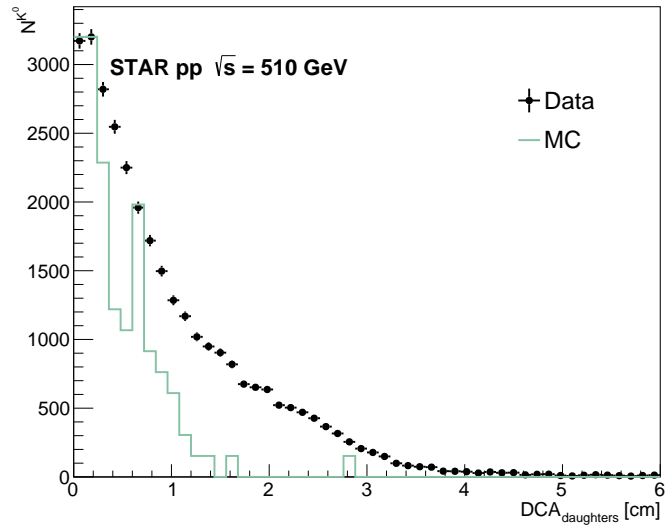


Figure 6: DCA daughters, Cuts: Narrow Mass Window. MC was scaled to the maximum of the data

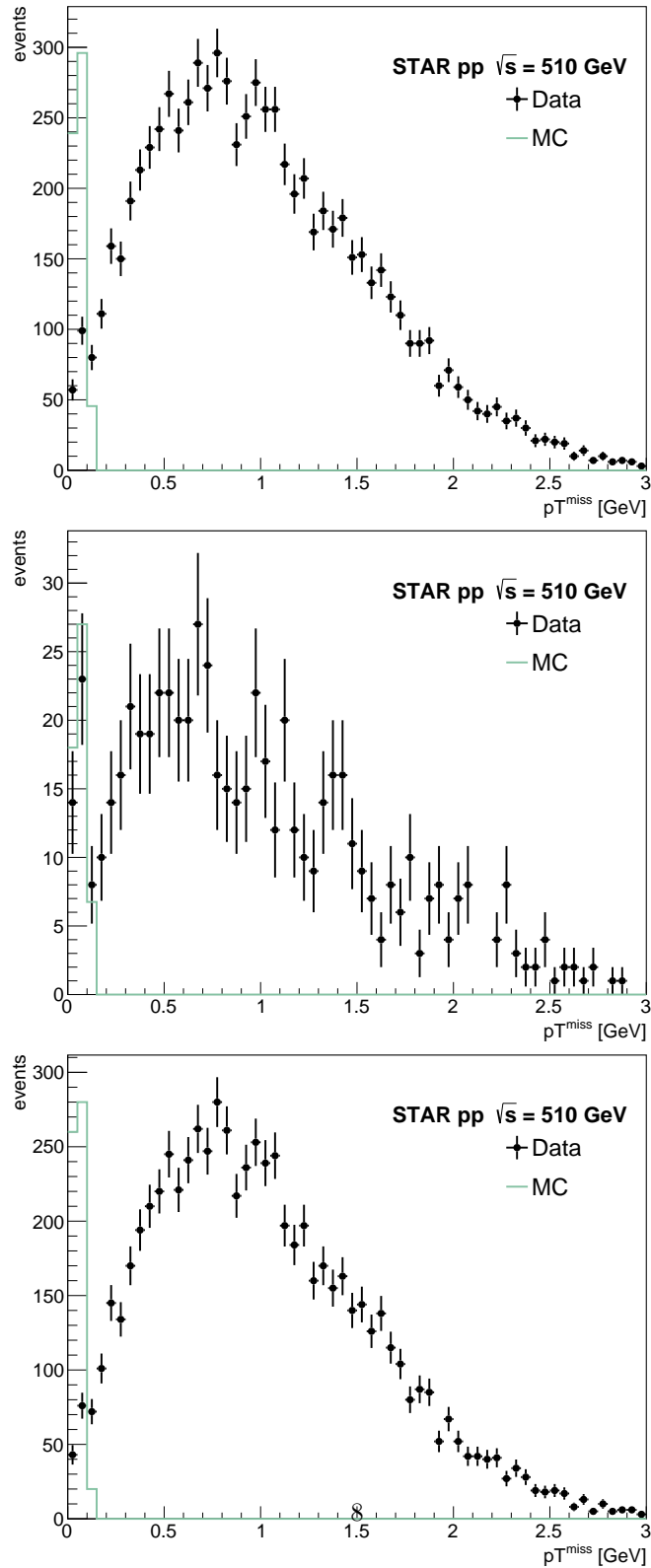


Figure 7: p_T^{miss} , Cuts: Narrow Mass Window, $DCA_{\text{daughters}}^{\text{leading}} \leq 1.5$ cm, $DCA_{\text{daughters}}^{\text{subleading}} \leq 1.5$ cm, $vtx_{K^0 K^0}^{\text{dist}} \leq 1.5$ cm. MC was scaled to the maximum of the data

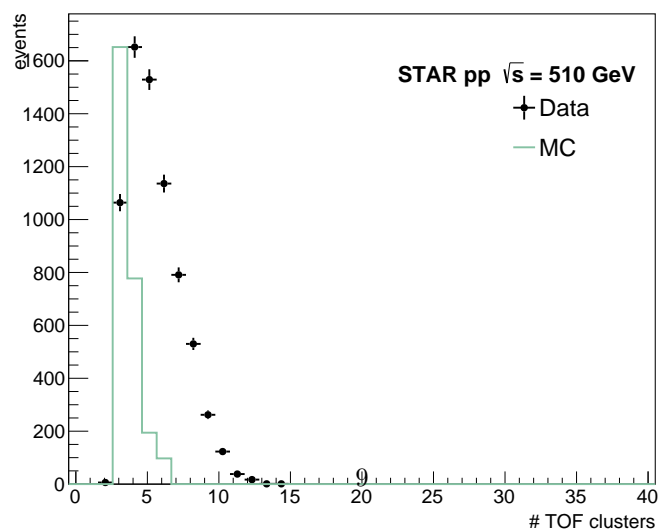
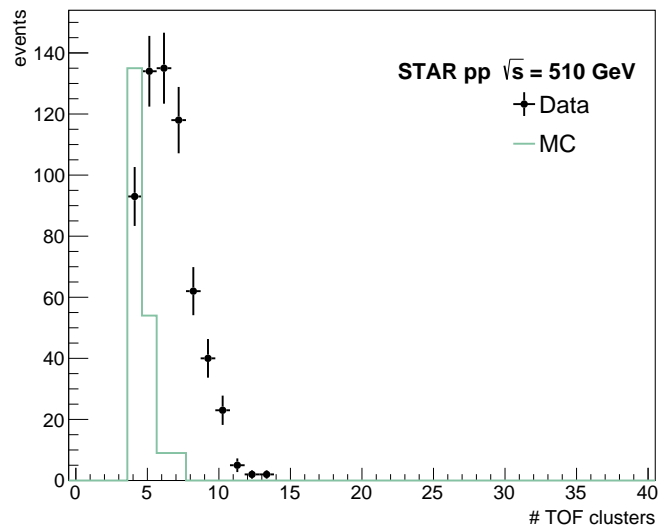
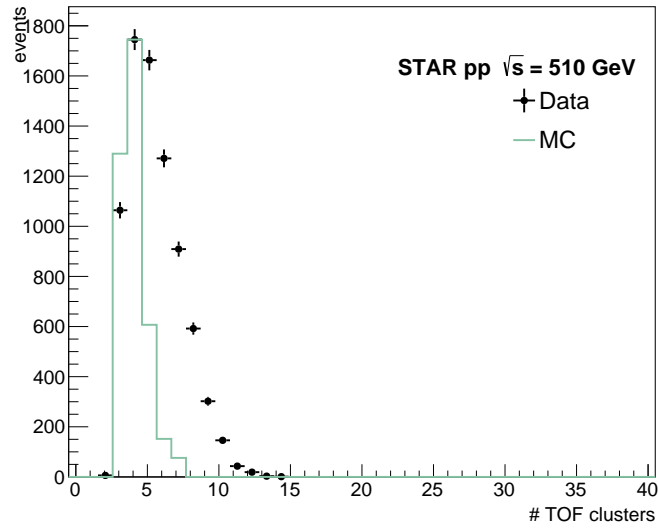


Figure 8: $N_{TOF}^{clusters}$ Cuts: Narrow Mass Window, $DCA_{daughters}^{leading} \leq 1.5$ cm, $DCA_{daughters}^{subleading} \leq 1.5$ cm, $vtx_{K^0K^0}^{dist} \leq 1.5$ cm. MC was scaled to the maximum of the data

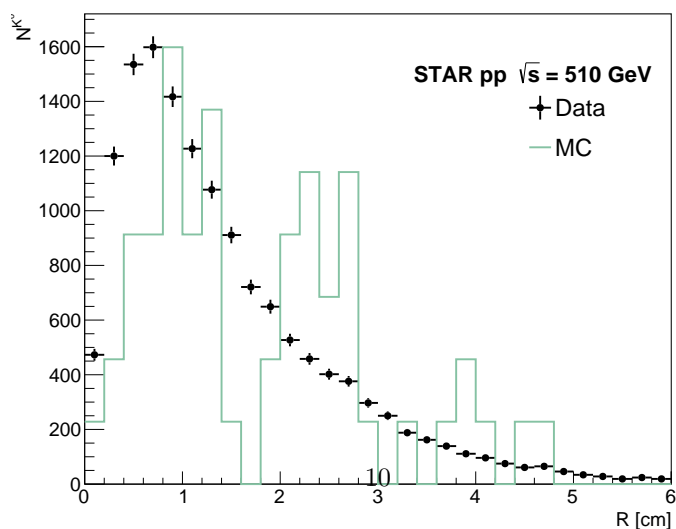
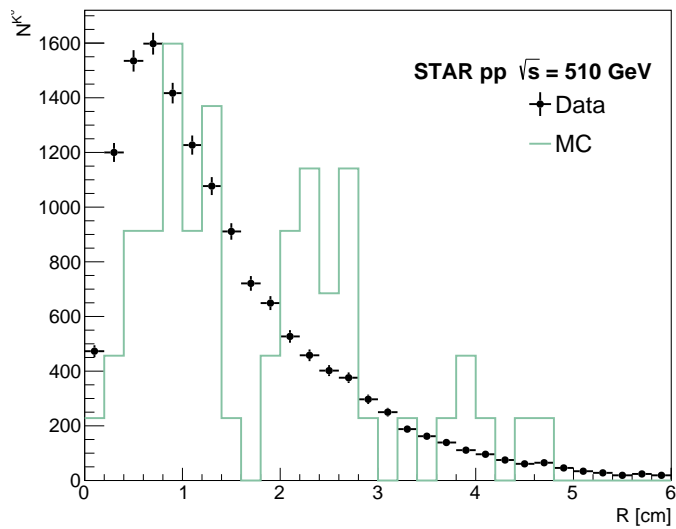
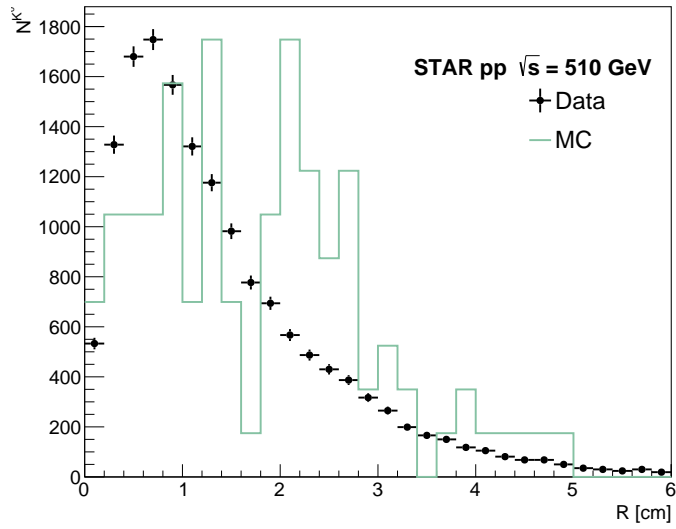


Figure 9: R, Cuts: Narrow Mass Window, $DCA_{daughters}^{leading} \leq 1.5$ cm, $DCA_{daughters}^{subleading} \leq 1.5$ cm, $vtx_{K^0K^0}^{dist} \leq 1.5$ cm. MC was scaled to the maximum of the data

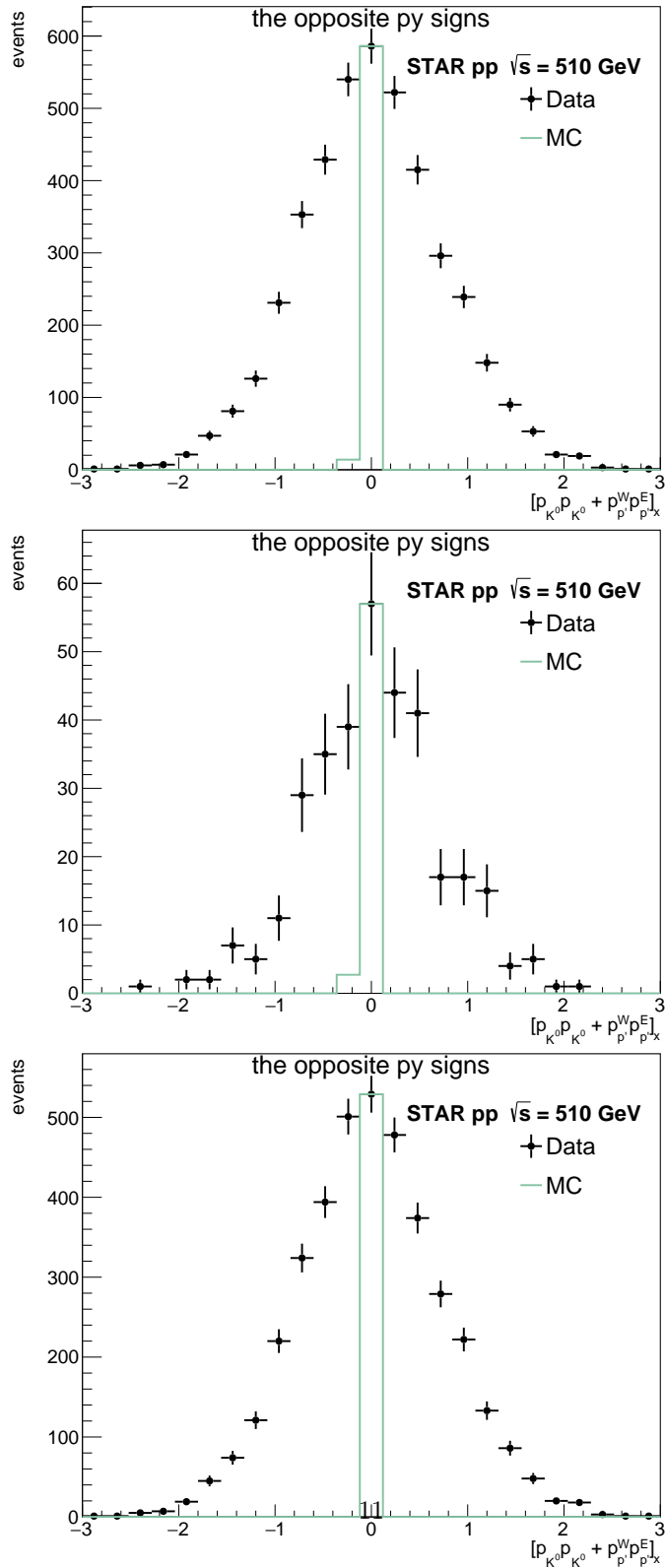


Figure 10: missing momentum in x direction - opposite py sign of the intact protons, Cuts: Narrow Mass Window, $DCA_{daughters}^{leading} \leq 1.5$ cm, $DCA_{daughters}^{subleading} \leq 1.5$ cm, $vt_{K^0K^0}^{dist} \leq 1.5$ cm. MC was scaled to the maximum of the data

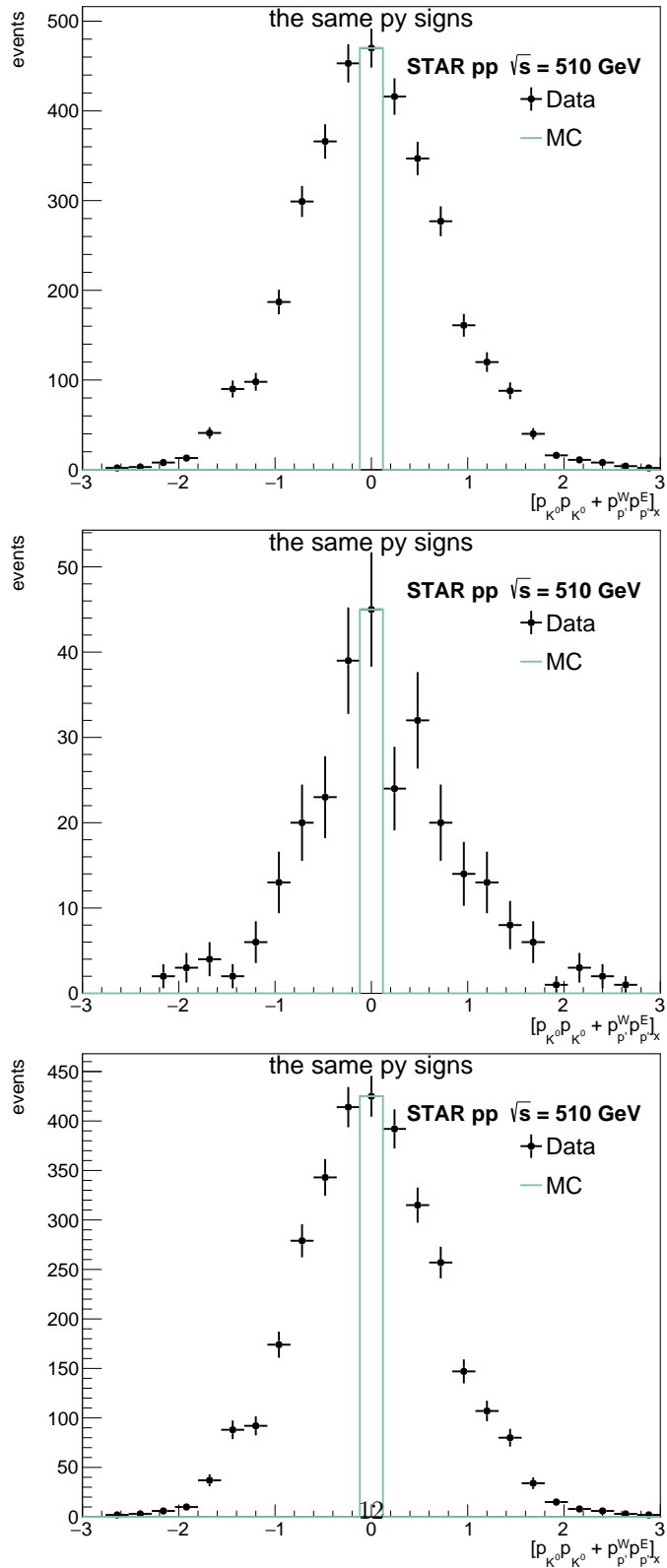


Figure 11: missing momentum in x direction - same py sign of the intact protons,
Cuts: Narrow Mass Window, $DCA_{daughters}^{leading} \leq 1.5$ cm, $DCA_{daughters}^{subleading} \leq 1.5$ cm,
 $vtx_{K^0 K^0}^{dist} \leq 1.5$ cm.
MC was scaled to the maximum of the data

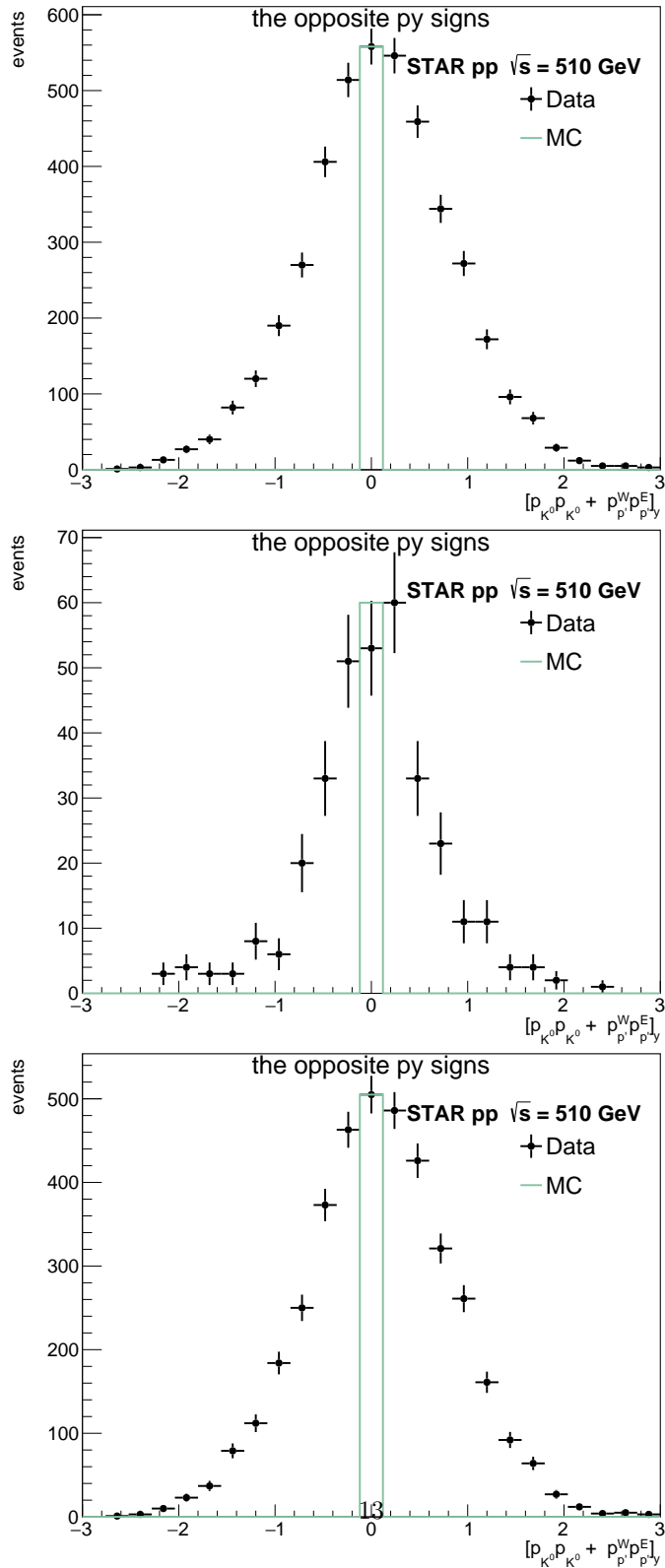


Figure 12: missing momentum in y direction - opposite p_y sign of the intact protons,, Cuts: Narrow Mass Window, $DCA_{daughters}^{leading} \leq 1.5$ cm, $DCA_{daughters}^{subleading} \leq 1.5$ cm, $vt\alpha_{K^0 K^0}^{dist} \leq 1.5$ cm.

MC was scaled to the maximum of the data

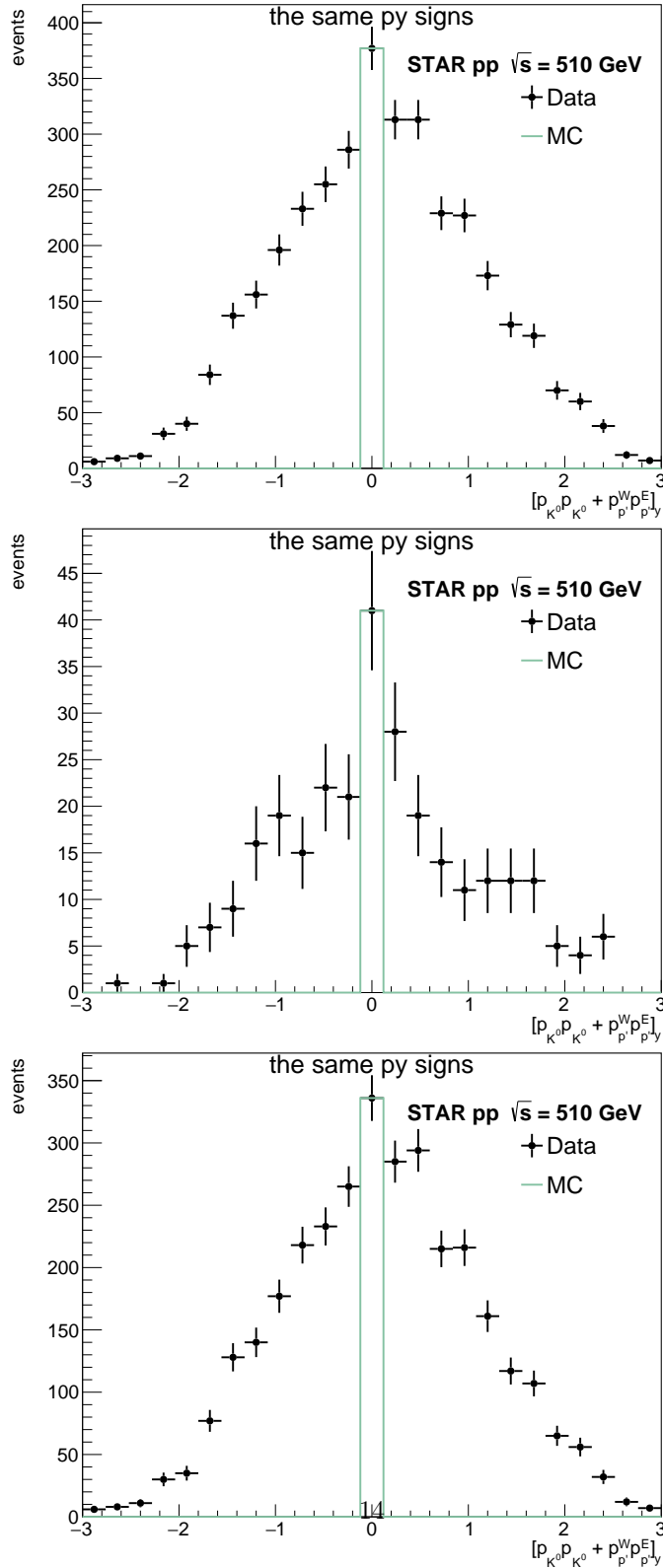


Figure 13: missing momentum in y direction - same py sign of the intact protons,, Cuts: Narrow Mass Window, $DCA_{daughters}^{leading} \leq 1.5$ cm, $DCA_{daughters}^{subleading} \leq 1.5$ cm, $vt_{K^0 K^0}^{dist} \leq 1.5$ cm.

MC was scaled to the maximum of the data

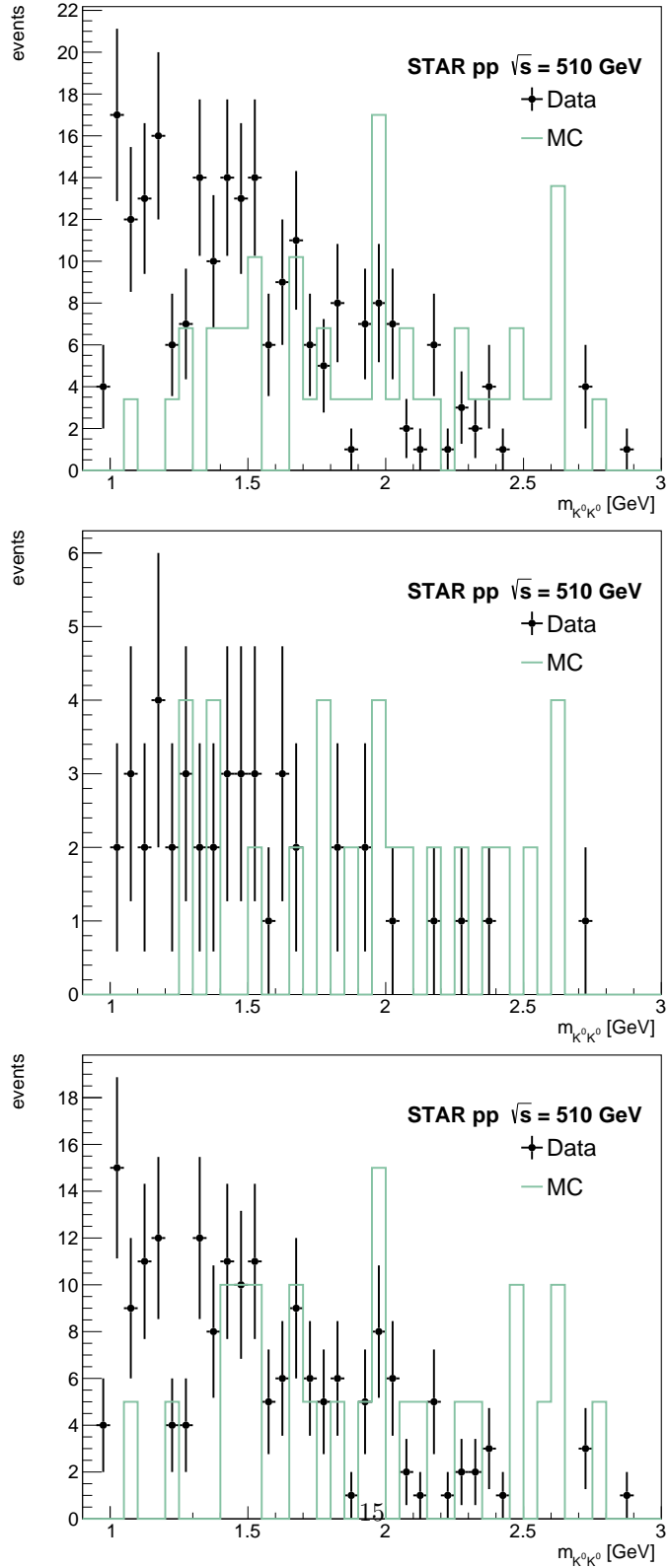


Figure 14: $m^{K_s^0 K_s^0}$. Cuts: Narrow Mass Window, $DCA_{daughters}^{leading} \leq 1.5$ cm, $DCA_{daughters}^{subleading} \leq 1.5$ cm, $vtx_{K^0 K^0}^{dist} \leq 1.5$ cm, $p_T^{miss} < 0.15$ GeV, $N_{TOF}^{clusters} \leq 9$. MC was scaled to the maximum of the data