

Ratio to nominal

STAR

$p+p \rightarrow p' + K^+ K^- + p'$ $\sqrt{s} = 200$ GeV

K^+, K^- :

$p_T > 0.3$ GeV

$|\eta| < 0.7$

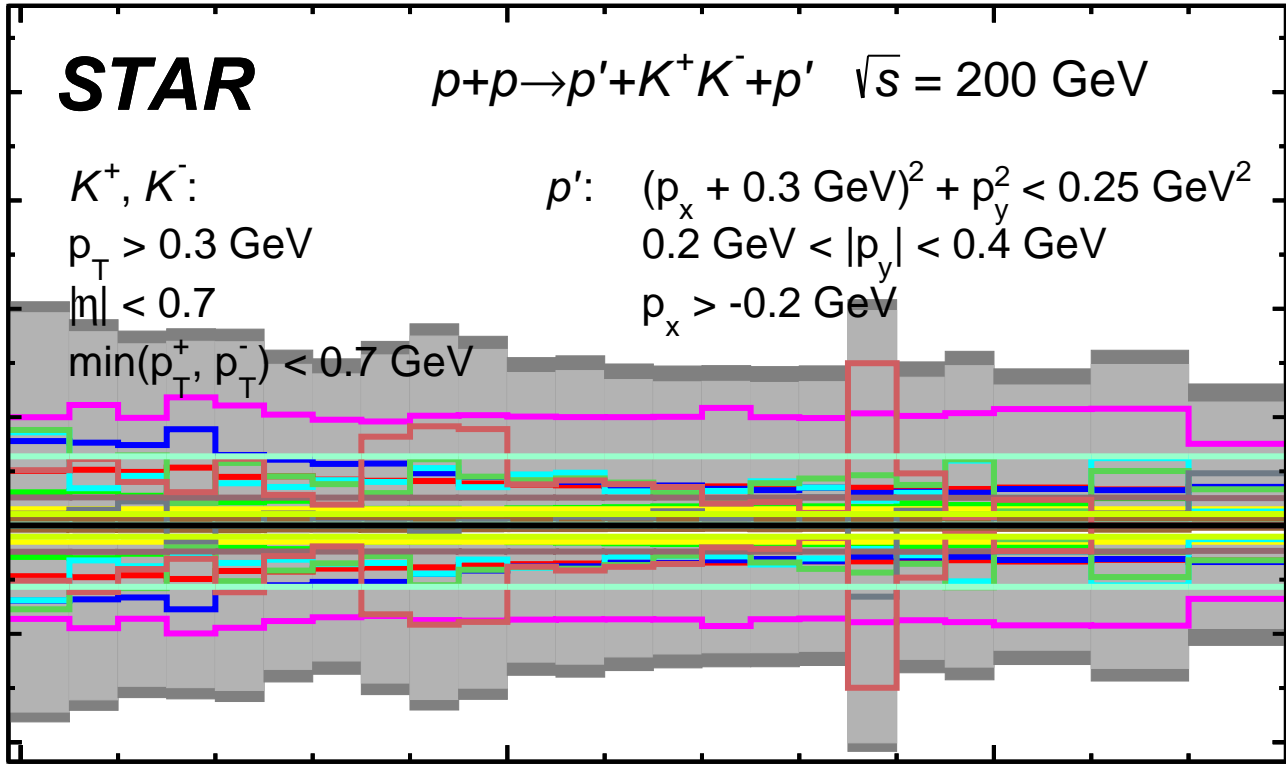
$\min(p_T^+, p_T^-) < 0.7$ GeV

p' : $(p_x + 0.3 \text{ GeV})^2 + p_y^2 < 0.25 \text{ GeV}^2$

$0.2 \text{ GeV} < |p_y| < 0.4 \text{ GeV}$

$p_x > -0.2 \text{ GeV}$

1.4
1.3
1.2
1.1
1
0.9
0.8



1

1.5

2

$m(K^+ K^-)$ [GeV]

- ▬ $\Delta \epsilon_{\text{TPC}}$ (embed. stat.)
- ▬ $\Delta \epsilon_{\text{TPC}}$ (dead mat.)
- ▬ $\Delta \epsilon_{\text{TOF}}$
- ▬ $\Delta \epsilon_{\text{DM veto}}$
- ▬ $\Delta \epsilon_{\text{RP}}$
- ▬ $\Delta \epsilon_{\Delta z_0}$
- ▬ $\Delta \epsilon_{\text{veto}}$
- ▬ $\Delta \sigma(z^{\text{vtx}})$
- ▬ $\Delta \epsilon_{N_{\text{cltrs}}^{\text{TOF}}}$

- ▬ $\Delta \epsilon_{\text{TPC}}$ (pile-up)
- ▬ $N^{\text{hits}}, d_0/\text{DCA}(R)$
- ▬ $\Delta \epsilon_{\text{RP}}$
- ▬ $\Delta \epsilon_{\text{RP}}$
- ▬ $\Delta \epsilon_{\text{vtx}}$
- ▬ $\Delta \langle z \rangle$
- ▬ $\Delta N_{\text{bkgd}}^{\text{non-excl}}$
- ▬ $\Delta \text{Luminosity}$

- ▬ Total (w/o lumi.)
- ▬ Total (w/ lumi.)