

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

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

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

$p_x > -0.2 \text{ GeV}$

$\Delta\phi < 90^\circ$

1

1.5

2

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

$\Delta\epsilon_{\text{TPC}}$  (embed. stat.)

$\Delta\epsilon_{\text{TPC}}$  (dead mat.)

$\Delta\epsilon_{\text{RP}}$

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$\Delta\epsilon_{\text{veto}}$

$\Delta\sigma(z_{\text{vtx}})$

$\Delta\epsilon_{\text{TPC}}$  (pile-up)

$\Delta\epsilon_{\text{TOF}}$

$\Delta\epsilon_{\text{RP}}^{\text{DM veto}}$

$\Delta\epsilon_{\text{vtx}}$

$\Delta\langle z_{\text{vtx}} \rangle$

$\Delta\text{Luminosity}$

Total (w/ lumi.)

