

Ratio to nominal

STAR

$p+p \rightarrow p' + p \bar{p} + p'$ $\sqrt{s} = 200$ GeV

p, \bar{p} :

$p_T > 0.4$ GeV

$|\eta| < 0.7$

$\min(p_T^+, p_T^-) < 1.1$ 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

1.2

1

0.8

-1

-0.5

0

0.5

1

$\cos \theta^{\text{CS}}(p)$

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

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

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

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

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

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

$\Delta \text{Luminosity}$

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

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

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

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

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

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

$\Delta N_{\text{bkgd}}^{\text{non-excl}}$

Total (w/o lumi.)

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