

Ratio to nominal

1.3

STAR

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

1.2

$\pi^+, \pi^-:$
 $p_T > 0.2$ GeV
 $|\eta| < 0.7$
 $1.0 \text{ GeV} < m(\pi^+ \pi^-) < 1.5 \text{ GeV}$

$p': (p_x + 0.3 \text{ GeV})^2 + p_y^2 < 0.25 \text{ GeV}^2$
 $0.2 \text{ GeV} < |p_y| < 0.4 \text{ GeV}$
 $p_x > -0.2 \text{ GeV}$

1.1

1

0.9

-1

-0.5

0

0.5

1

$\cos \theta^{\text{GJ}}(\pi^+)$

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

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

$\Delta \epsilon_{\text{RP}}$
 $\Delta \epsilon_{\text{RP}}^{\text{trig.}}$

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

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

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

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

