

Ratio to nominal

1.3

STAR

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

π^+, π^- :

$p_T > 0.2$ GeV

$|\eta| < 0.7$

$1.0 \text{ GeV} < m(\pi^+ \pi^-) < 1.5 \text{ GeV}$

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

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

$p_x > -0.2 \text{ GeV}$

1.2

1.1

1

0.9

-180

-120

-60

0

60

120

180

$\phi^{\text{GJ}}(\pi^+)$

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