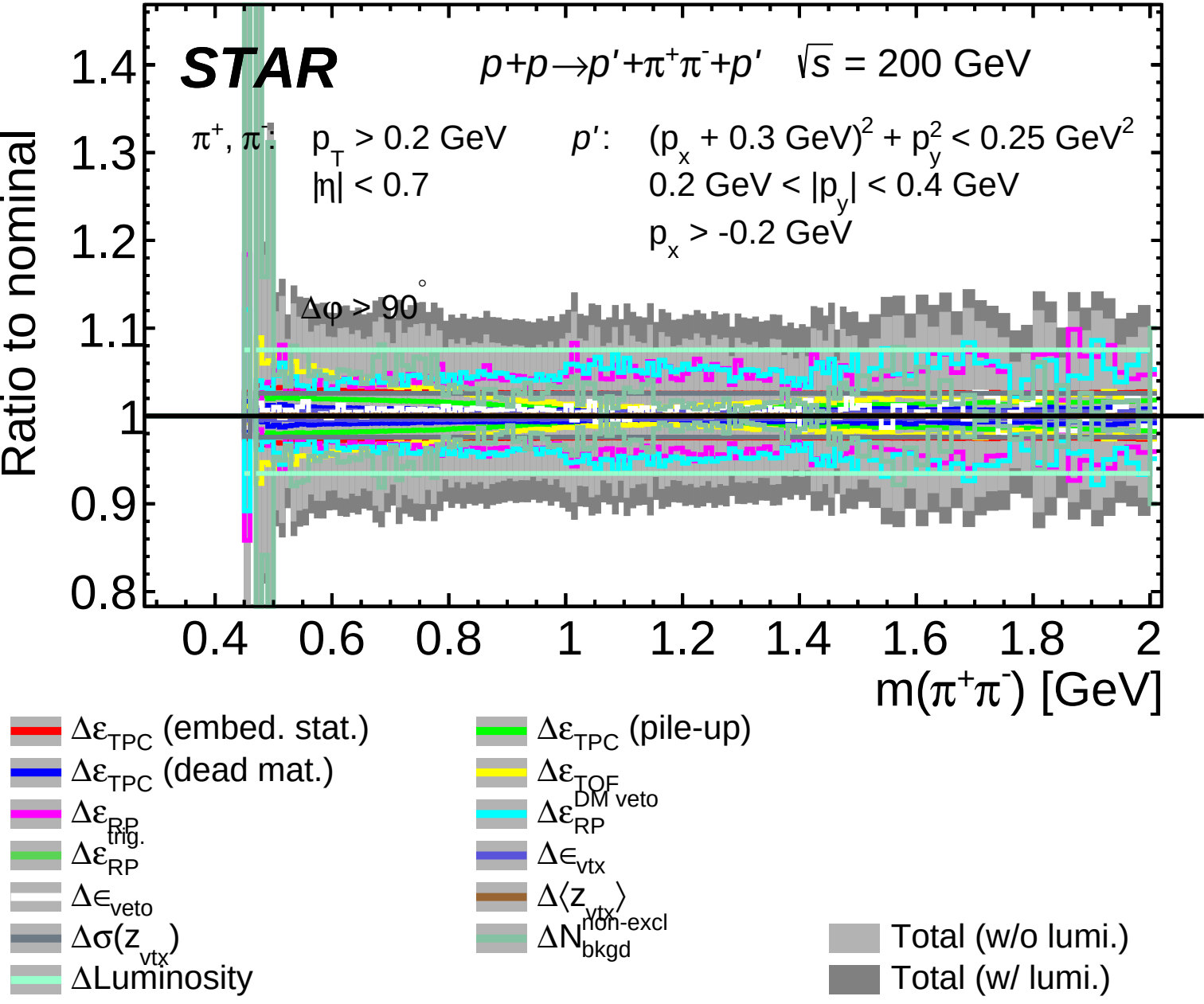
STAR
$p+p \to p'+\pi^+\pi^-+p'$ $\sqrt{s}$ = 200 GeV
π^+, π^-: p_T > 0.2 GeV
$|\eta|$ < 0.7
p': $(p_x + 0.3\ \text{GeV})^2 + p_y^2 < 0.25\ \text{GeV}^2$
0.2 GeV < $|p_y|$ < 0.4 GeV
p_x > -0.2 GeV
$\Delta\varphi > 90^\circ$
Ratio to nominal
1.4
1.3
1.2
1.1
1
0.9
0.8
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
$m(\pi^+\pi^-)$ [GeV]
$\Delta\varepsilon_{TPC}$ (embed. stat.)
$\Delta\varepsilon_{TPC}$ (dead mat.)
$\Delta\varepsilon_{RP}^{trig.}$
$\Delta\varepsilon_{RP}$
$\Delta\epsilon_{veto}$
$\Delta\sigma(z_{vtx})$
ΔLuminosity
$\Delta\varepsilon_{TPC}$ (pile-up)
$\Delta\varepsilon_{TOF}$
$\Delta\varepsilon_{RP}^{DM\ veto}$
$\Delta\epsilon_{vtx}$
$\Delta\langle z_{vtx}\rangle$
$\Delta N_{bkgd}^{non\text{-}excl}$
Total (w/o lumi.)
Total (w/ lumi.)