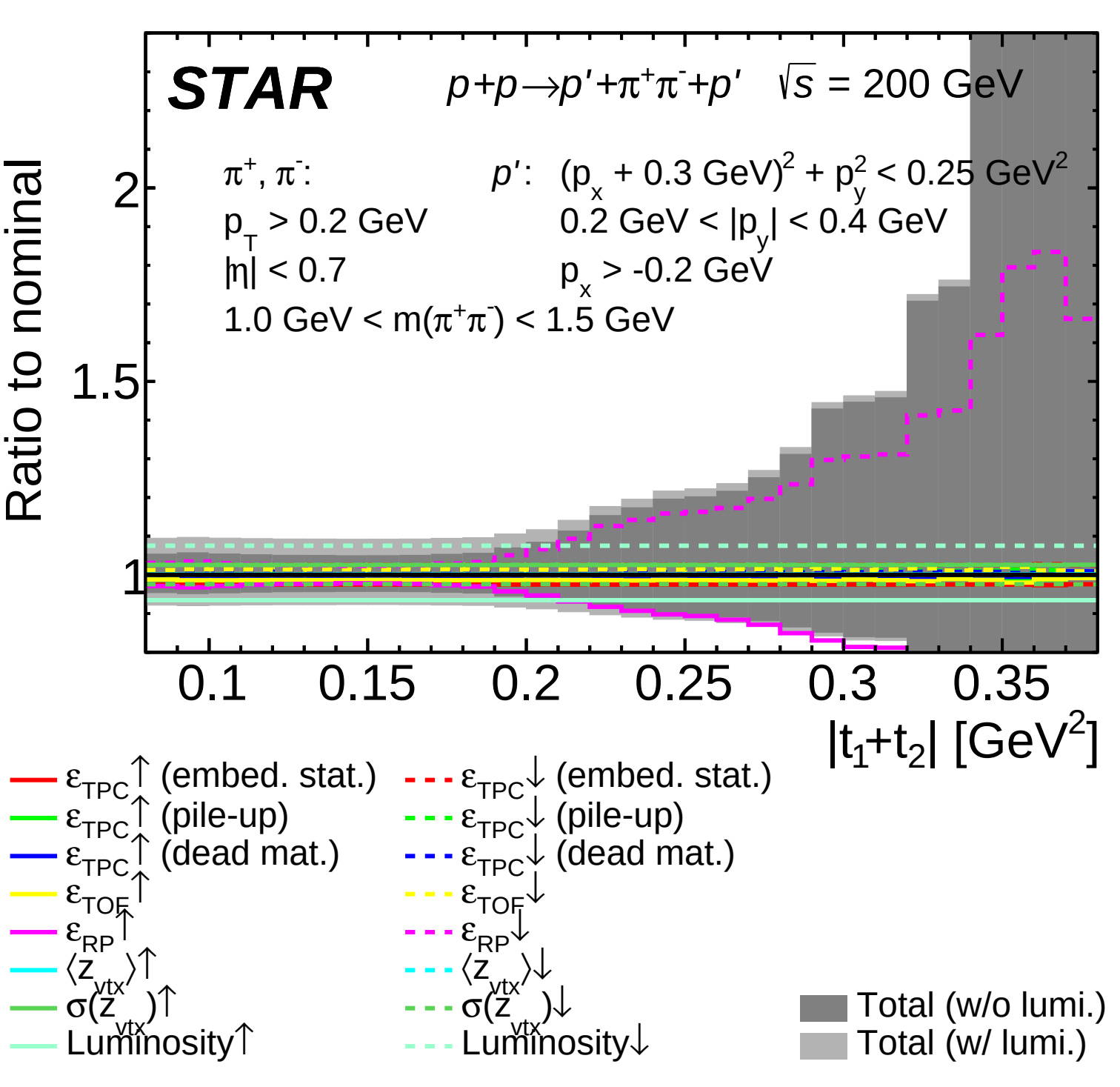
STAR
$p+p \rightarrow p'+\pi^+\pi^-+p'$ $\sqrt{s}$ = 200 GeV
π^+, π^-:
$p_T > 0.2$ GeV
$|\eta| < 0.7$
1.0 GeV < $m(\pi^+\pi^-)$ < 1.5 GeV
p': $(p_x + 0.3\ \text{GeV})^2 + p_y^2 < 0.25\ \text{GeV}^2$
0.2 GeV < $|p_y|$ < 0.4 GeV
$p_x > -0.2$ GeV
Ratio to nominal
2
1.5
1
0.1
0.15
0.2
0.25
0.3
0.35
$|t_1+t_2|$ [GeV^2]
$\varepsilon_{TPC}\uparrow$ (embed. stat.)
$\varepsilon_{TPC}\uparrow$ (pile-up)
$\varepsilon_{TPC}\uparrow$ (dead mat.)
$\varepsilon_{TOF}\uparrow$
$\varepsilon_{RP}\uparrow$
$\langle z_{vtx}\rangle\uparrow$
$\sigma(z_{vtx})\uparrow$
Luminosity$\uparrow$
$\varepsilon_{TPC}\downarrow$ (embed. stat.)
$\varepsilon_{TPC}\downarrow$ (pile-up)
$\varepsilon_{TPC}\downarrow$ (dead mat.)
$\varepsilon_{TOF}\downarrow$
$\varepsilon_{RP}\downarrow$
$\langle z_{vtx}\rangle\downarrow$
$\sigma(z_{vtx})\downarrow$
Luminosity$\downarrow$
Total (w/o lumi.)
Total (w/ lumi.)