

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

STAR

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

1.2

1

0.1

0.2

0.3

(embed_start, (pile-up)
(dead man, N, d, A, E, C, A, E, v²)

ΔE TPC (e)
 ΔE TPC (d)
 ΔE DMF veto
 ΔE RP
 ΔE ΔZ_0
 ΔE veto
 $\Delta \sigma(Z)$
 ΔE N_{TOF} vtx
 Cltrs

Diagram illustrating the components of the signal and background processes, showing the relationship between the signal and background processes.

Total (w/o q_u)
Total (w/ q_u)