$\gamma p \rightarrow \phi p \rightarrow K^+K^-p$ from deuteron

- Reaction: $\gamma d \rightarrow \phi p(n) \rightarrow K^+K^-p(n)$
- Event selection

  -2 positive and 1 negative tracks, no extra tracks or showers

  -kinematic fitting with P4 and vertex constraint, confidence level > 0.01

  -tagger accidental subtracted with 4 beam bunches on each side

  -standard GlueX PID cuts (timing and dE/dx)

  -cuts on vertex to constrain to the target region

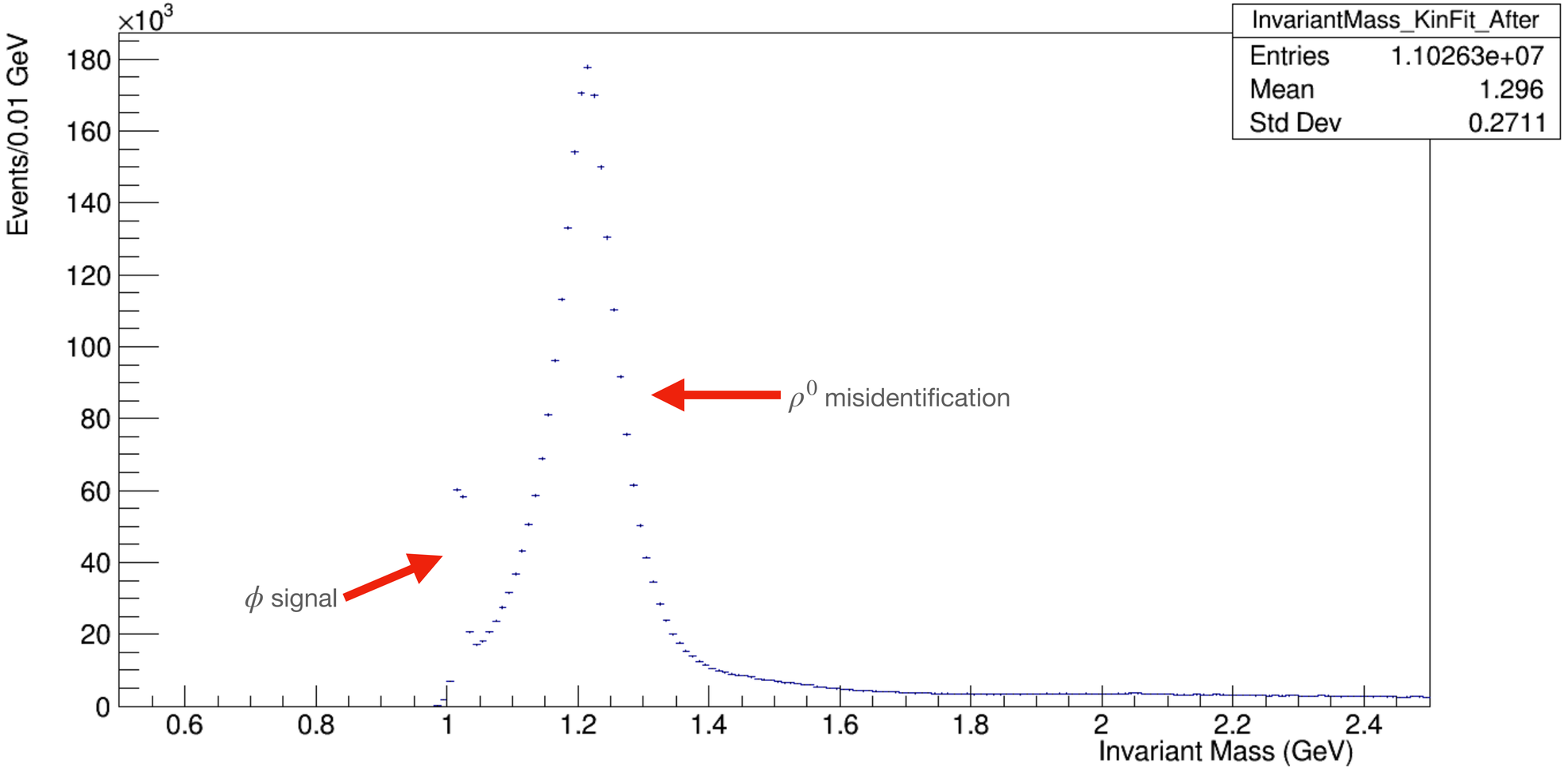
  -missing P^- : 0.7 GeV $< P^-_{missing} <$ 1.2 GeV

  -charged tracks PID FOM > 0.1

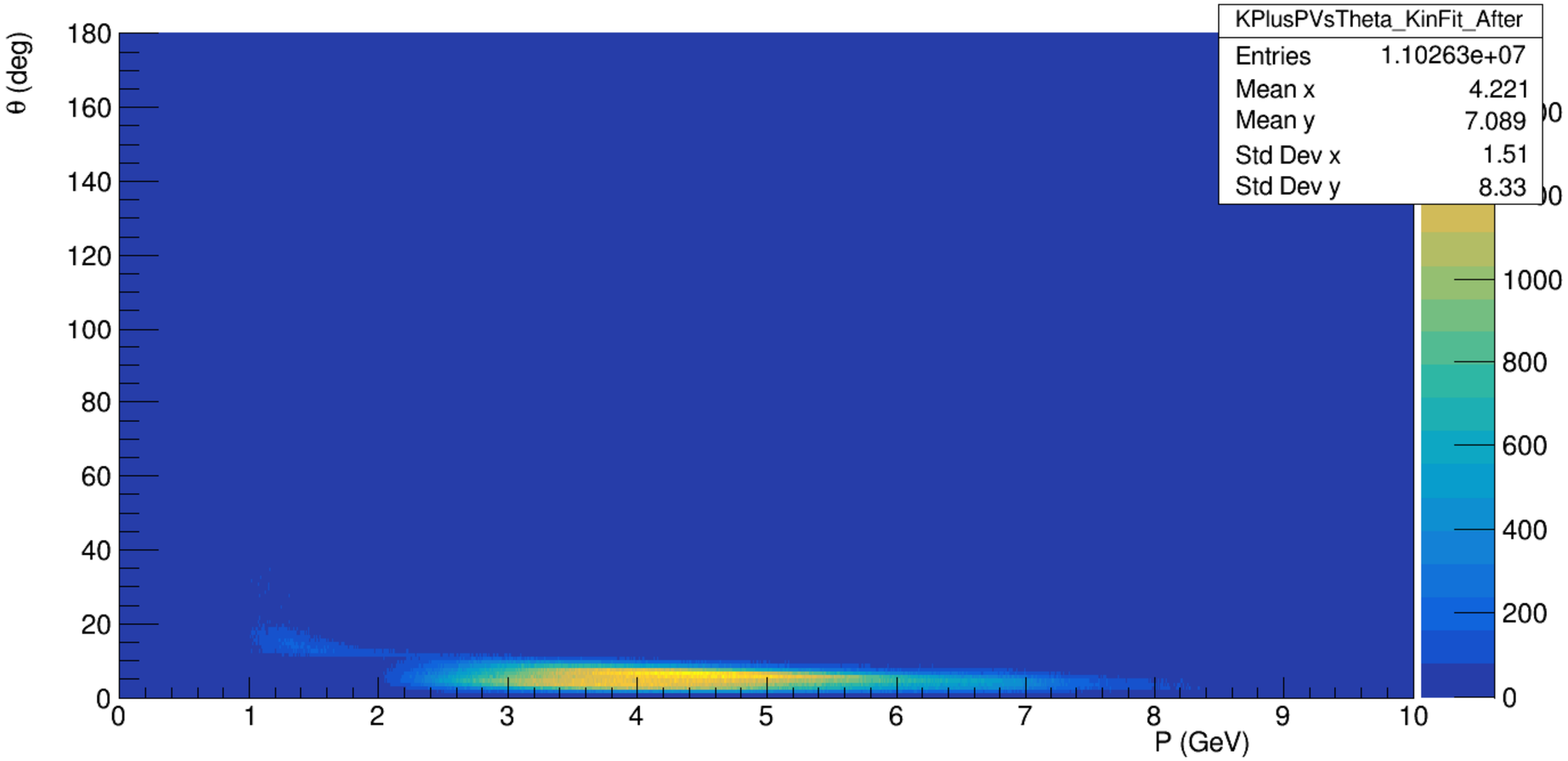
  -missing momentum > 200 MeV

  -photon energy: 6.0 GeV $< E_\gamma <$ 10.8 GeV

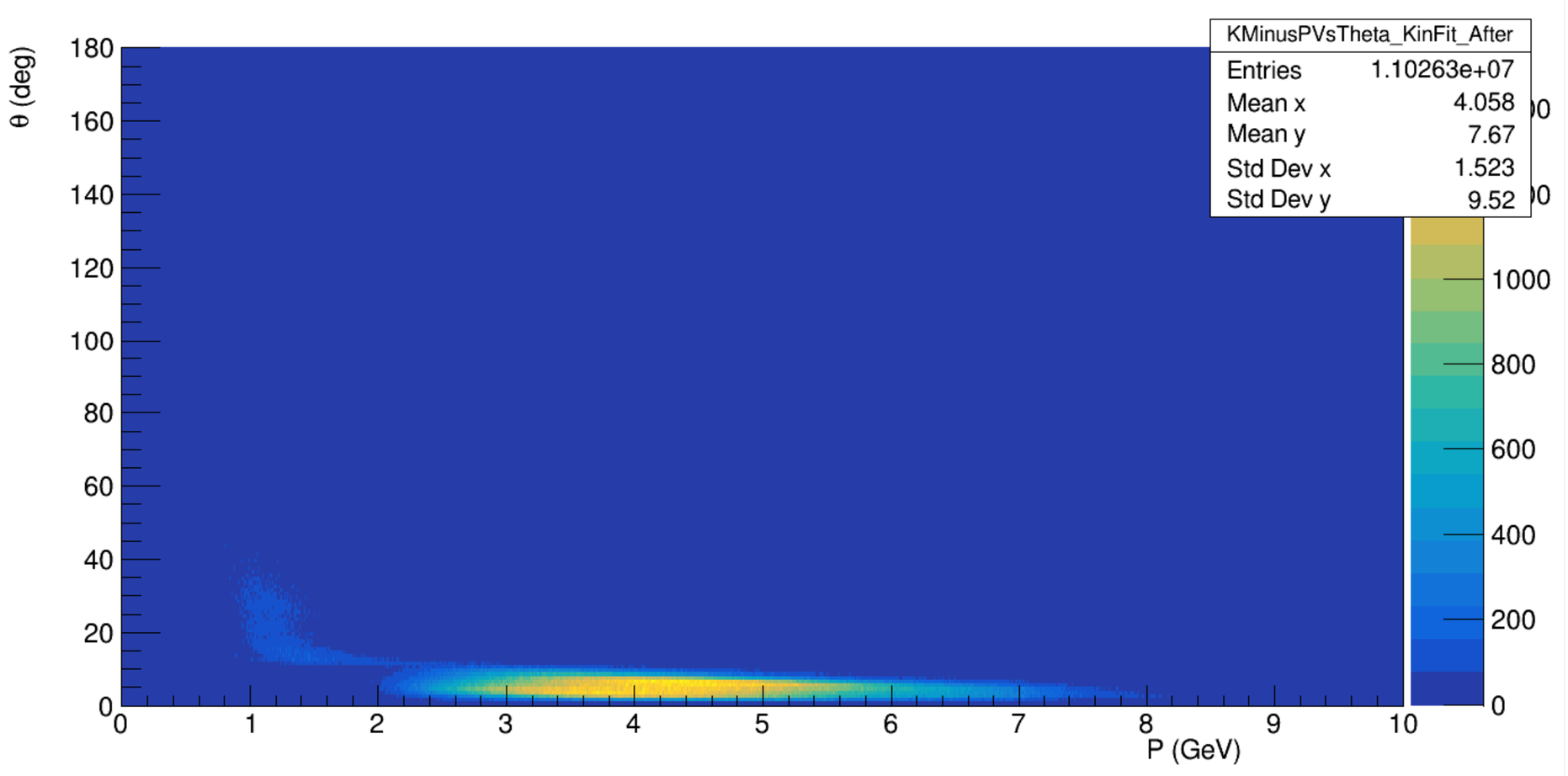
- Invariant mass of the K^+K^- pair



- K^+ kinematics



- K^- kinematics



- p kinematics