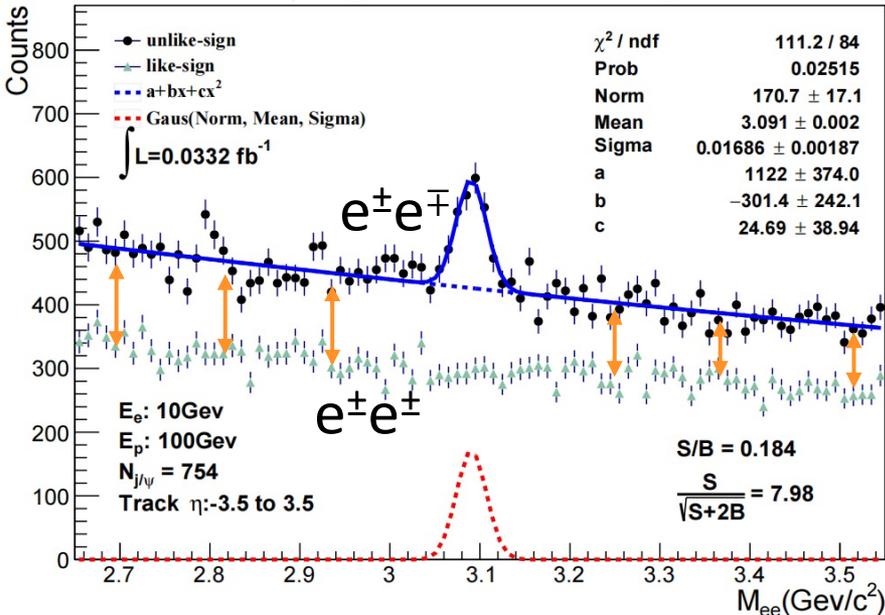


Invariant mass of $J/\psi \rightarrow e^+e^-$

Using track evaluator from the 1st simulation campaign with perfect eID

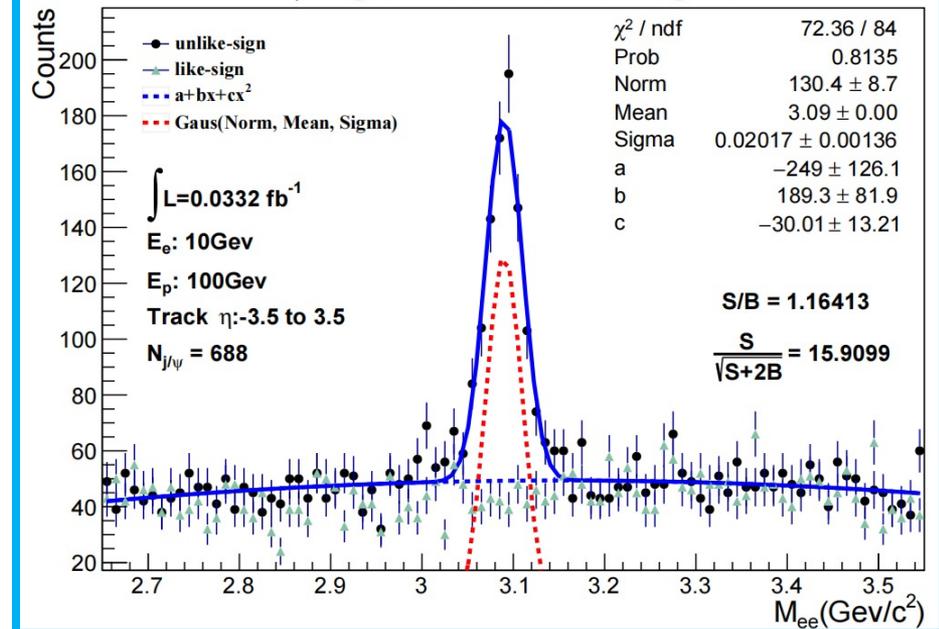
J/ψ Signal Peak over background



A gap between unlike-sign (foreground) and like-sign (combinatorial background) electron pairs' invariant mass distributions

With e^\pm cuts

J/ψ Signal Peak over background



- Light cone cut applied to remove beam electrons
- Veto e^\pm from light hadron decay
- The unlike and like-sign pair distribution is now at the same level

