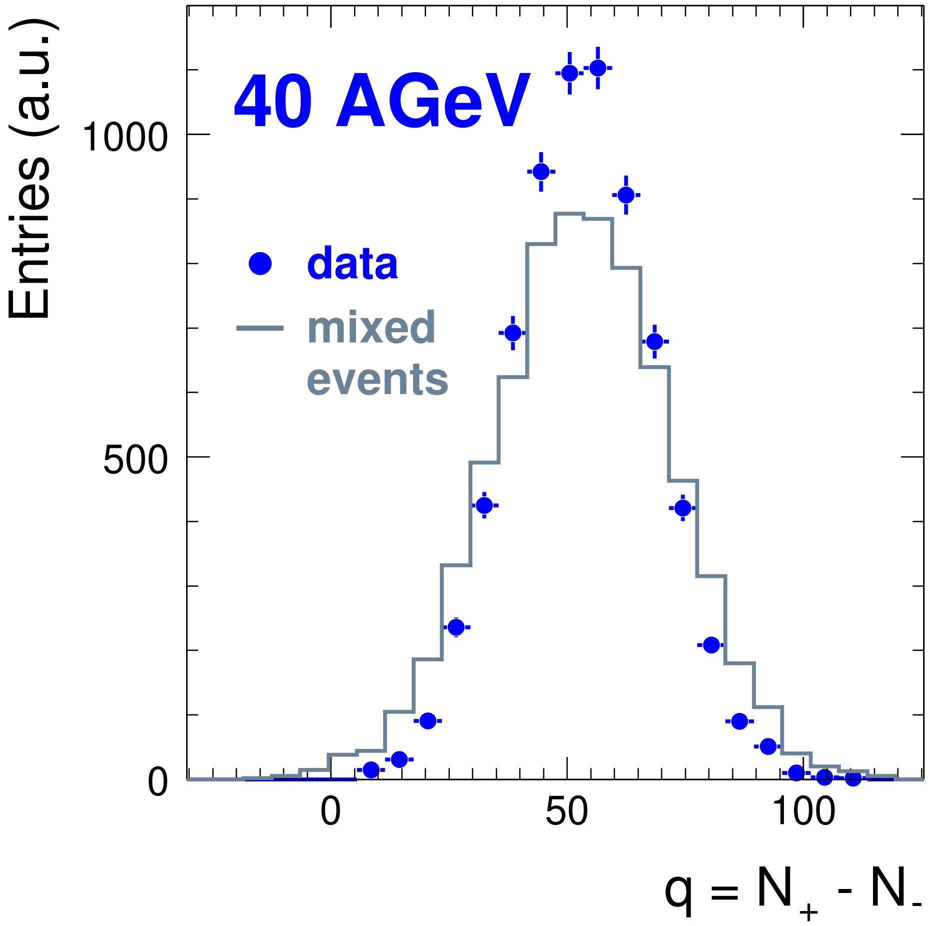
Fluctuations of the Net Charge $Q = N_{+} - N_{-}$

- charge quanta in QGP $(q = \frac{1}{3}, \frac{2}{3})$ smaller than in hadron gas (q=1)
- reduced fluctuations in QGP may survive hadronisation

  S.Jeon, V.Koch, PRL 85(2002)2076

  M.Asakawa, U.Heinz, B.Müller, PRL 85(2002)2072
- fluctuation measure should take into account
  - impact parameter fluctuations
  - net charge of the system and charge conservation
  - acceptance effects



fluctuations smaller in real events due to charge conservation