Charge-Fluctuations

- Event-by-event charge-fluctuations in central Pb+Pb

  S. Jeon and V. Koch
  Phys. Rev. Lett. 85 (2000) 2076-2079

  M. Asakawa, U. Heinz, and B. Müller,
  Phys. Rev. Lett. 85 (2000) 2072-2075

- Corrections for acceptance and net-charge:

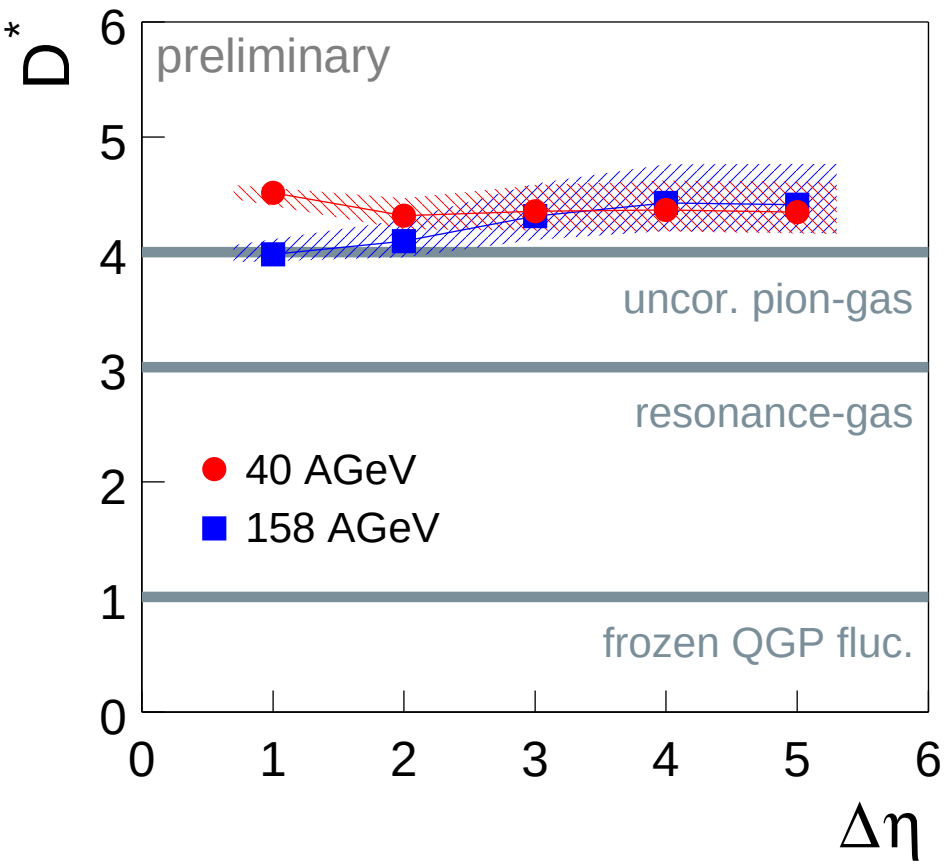
  $R = N_+ / N_- |_{event}$

  $D^* = \langle N_{ch} \rangle \langle \delta R^2 \rangle / (C_\mu C_y)$

  $C_\mu = \langle N_+ \rangle^2 / \langle N_- \rangle^2$

  $C_y = 1 - \langle N_{ch} \rangle / \langle N_{ch} \rangle_{total}$

  M. Bleicher, S. Jeon, and V. Koch,
  Phys. Rev. C62 (2000) 061902



- Analysis done as function of the acceptance window $\Delta\eta$ around mid-rapidity
- $D^* \approx 4 \rightarrow$ uncorrelated pion-gas
- No difference between 40 and 158 *A*GeV