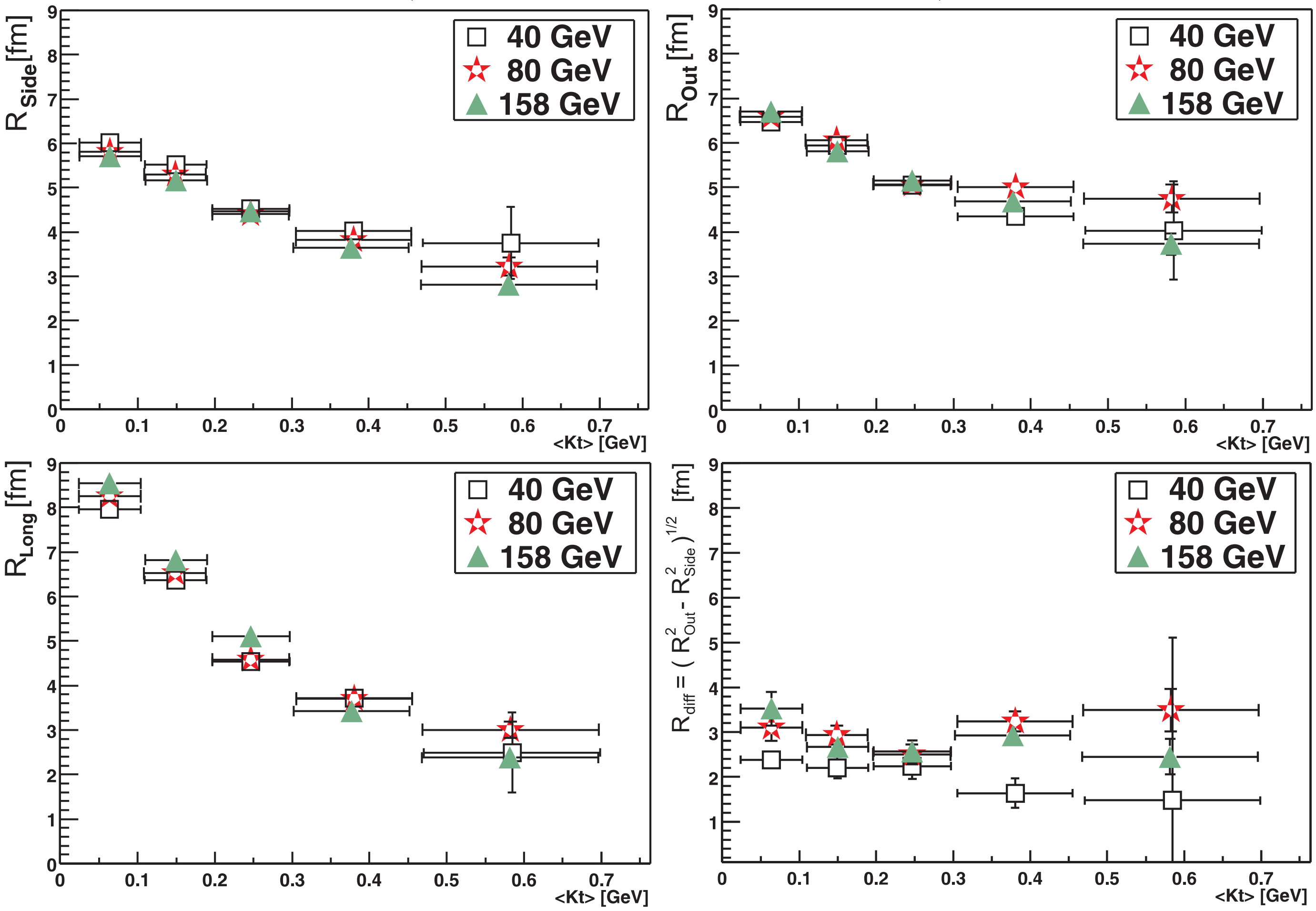
$\pi^-\pi^-$ B–E correlations: radius parameters

kinetic freezeout: fireball size, expansion, lifetime, emission duration

$$C_2 = C_{coul} \cdot \{1 + \lambda \cdot exp(-R^2_{side}Q^2_{side} - R^2_{out}Q^2_{out} - R^2_{long}Q^2_{long} - 2R_{out,long}Q_{out}Q_{long})$$

(LCMS system, NA49 preliminary)



- similar values at 40, 80, 158 A·GeV (syst.err.$\approx$ 0.5 fm)
  disagreement with energy dependence of R_{out} of CERES
- decrease with K_T manifests strong flow
  longitudinally (R_{long}) and radially (R_{side}, R_{out})
- $R^2_{diff} = \beta^2_T \langle \tilde{t}^2 \rangle - 2\beta_T \langle \tilde{x}_o \tilde{t} \rangle + \langle \tilde{x}^2_o - \tilde{x}^2_s \rangle \approx \Delta\tau^2 \beta^2_T$ small
  $\Rightarrow$ no evidence for long-lived mixed phase