Other Two Particle Correlations

- Correlation functions reflect influence of FSI:
  - Coulomb interaction
  - Strong interaction
- Correlations of non identical particles
- Study space-time asymmetries by unlike particle correlations

  $\rightarrow$ πp correlations

  R. Lednicky, V.L. Lyuboshitz, B. Erazmus, D. Nouais, Phys. Lett. B373 (1996) 30
- Source size determination

  $\rightarrow$ Λp correlations

  F. Wang and S. Pratt, Phys. Rev. Lett. 83 (1999) 3138

- Learn about two particle interaction

  $\rightarrow$ $\Lambda\Lambda$ correlations

  C. Greiner and B. Müller, Phys. Lett. B219 (1989) 199

- Variables:

  $Q = q_{inv} = 2k^*$ (in pair c.m.)

  $k^* = \frac{1}{2}(\vec{p}_1 - \vec{p}_2)$

  $x \equiv \{t^*, r^*\} = x_1 - x_2$ (in pair c.m.)