$\langle p_t \rangle$ Fluctuations

Two Particle Correlations

- Differential observable

  $\rightarrow$ more information

  T. Trainor, hep-ph/0001148

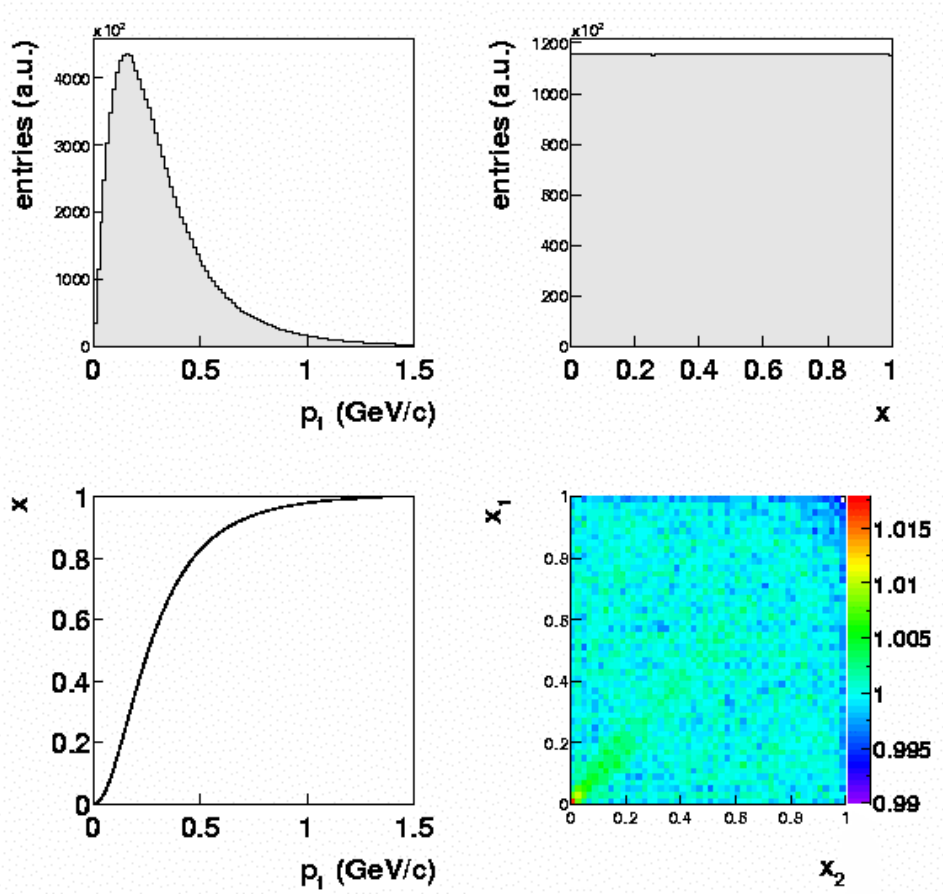
- Transformation: $p_t \rightarrow x$

$$x_i(p_t^i) = \frac{\int_0^{p_t^i} \frac{dN}{dp_t'} dp_t'}{\int_0^{\infty} \frac{dN}{dp_t'} dp_t'}$$

  A. Bialas. M. Gazdzicki,
  Phys. Lett. B252, 483-486 (1990)

- Two particle correlations:

  x_1 vs x_2 of particle pairs



Central (5%) Pb+Pb @ 158 AGeV