First look of k_t measurements using di-jet correlations

Eleazar Cuautle[1], Rafael Díaz[2], Isabel Domínguez[1], Guy Paić[1] y Andreas Morsch[3]

[1]Instituto de Ciencias Nucleares, UNAM, México

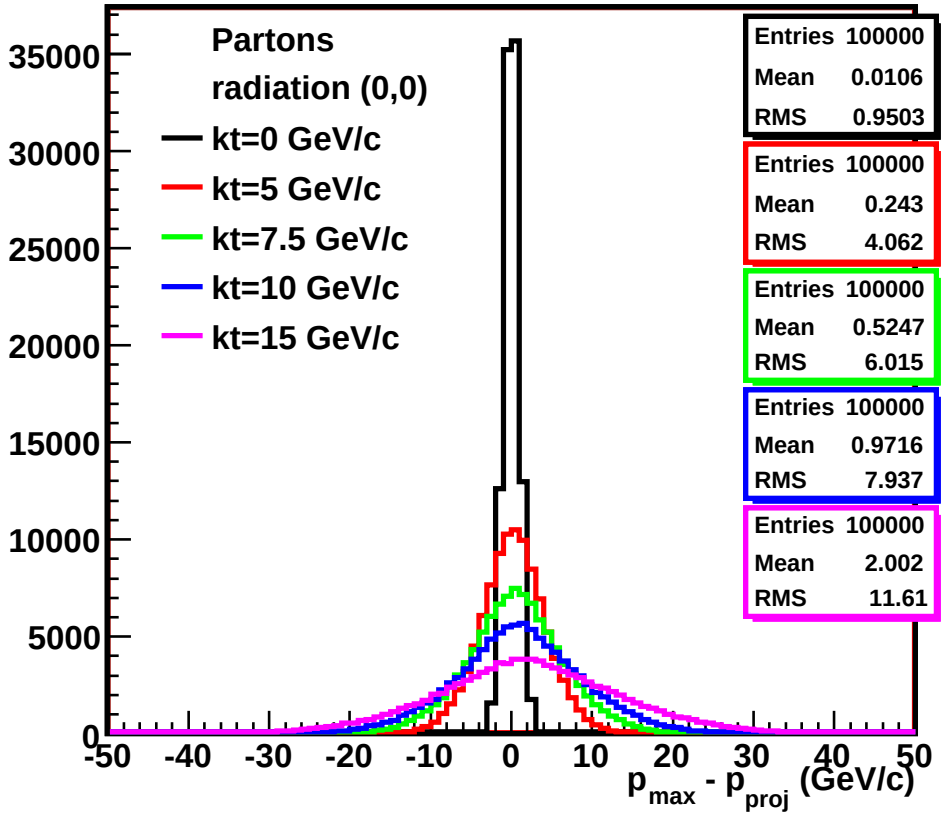
[2]Centro de Aplicaciones Tecnológicas y Desarrollo Nuclear, CEADEN, La Habana

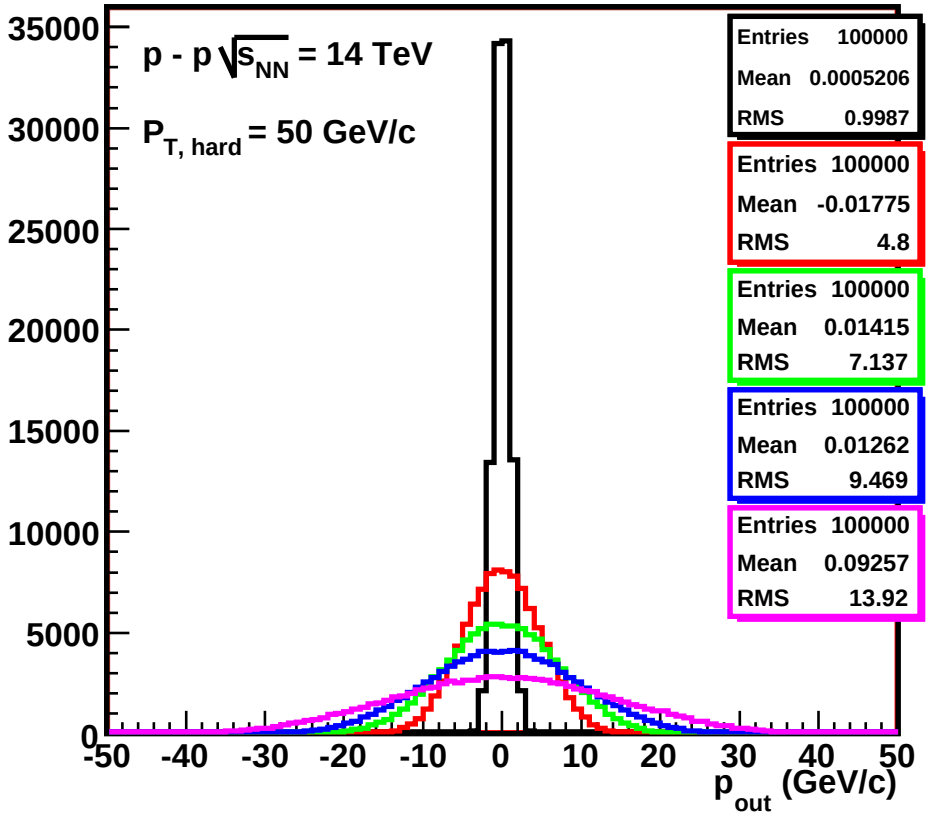
[3]Departamento de Física, CERN, Ginebra, Suiza

Monte Carlo Generation

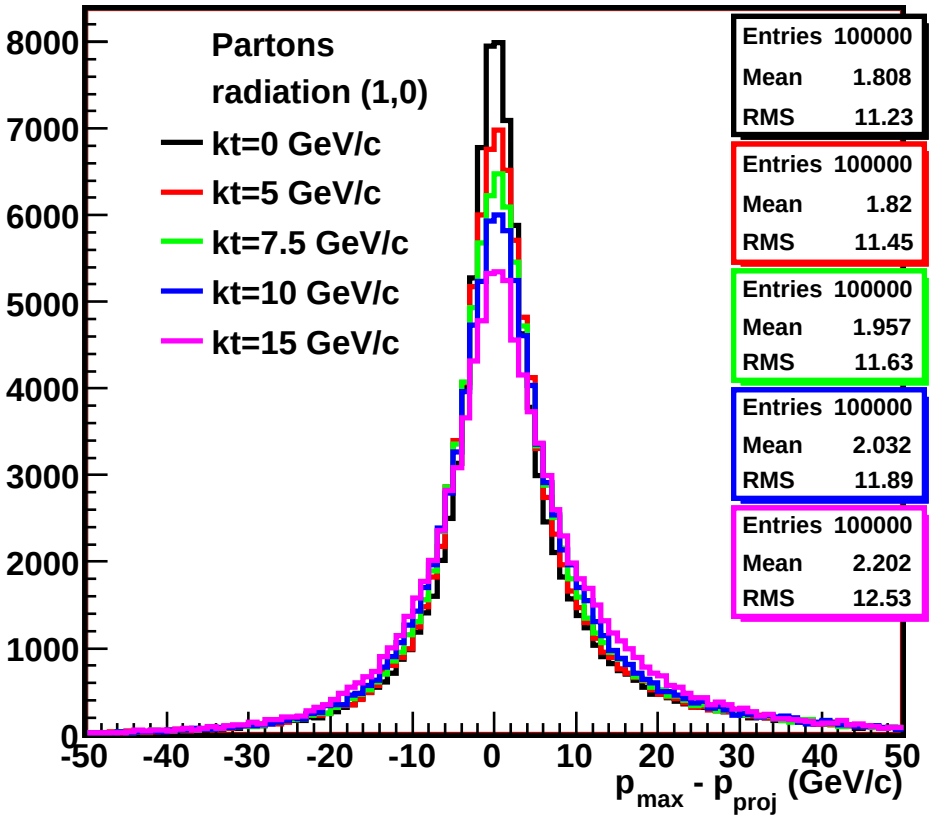
- **PYTHIA 6.2**
  - Proton - Proton
  - Centre mass energy: 14 TeV
  - Process types: kPyJets p_{Thard} = 50 GeV/c
  - k_T = 0, 5, 7.5, 10, 15 GeV/c
  - Initial/final state radiation

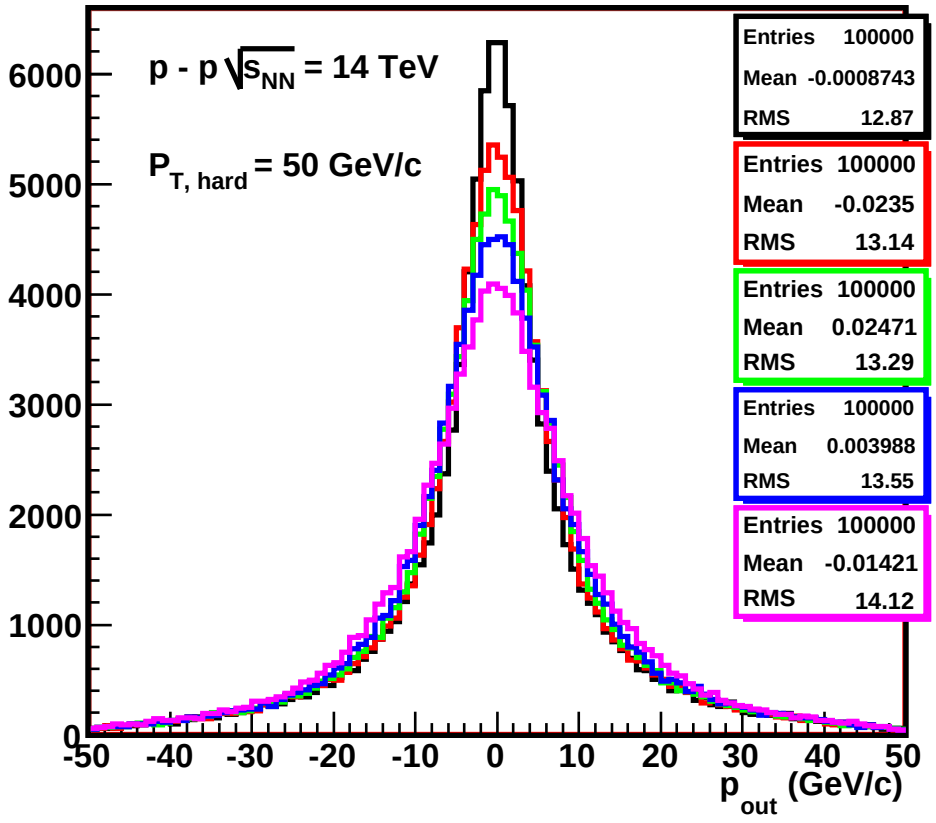
Partons k_T = 0, 5, 7.5, 10, 15 GeV/c without radiation





Partons k_T = 0, 5, 7.5, 10, 15 GeV/c with radiation





Dijets k_T = 0, 5, 7.5, 10, 15 GeV/c with initial and final radiation