MIPP Monte Carlo

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MIPP Collaboration Meeting, FNAL

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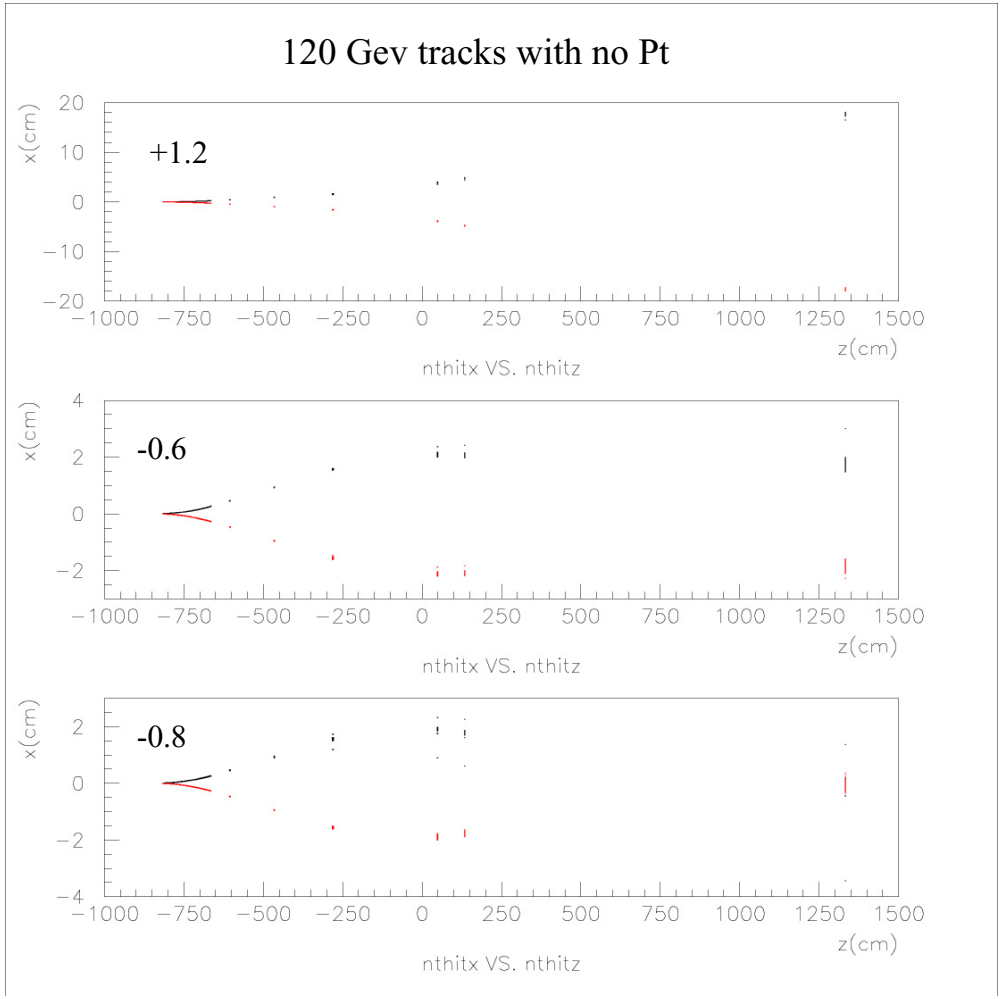
Rosy strength



- Tradeoff between
  - Momentum resolution
  - RICH acceptance
- Refocusing tracks to a single point maximizes RICH acceptance but eliminates stand alone momentum info from the last drift chamber
  - Positive and negative tracks can still be distinguished using the other chambers
  - Acceptable momentum resolution degradation?

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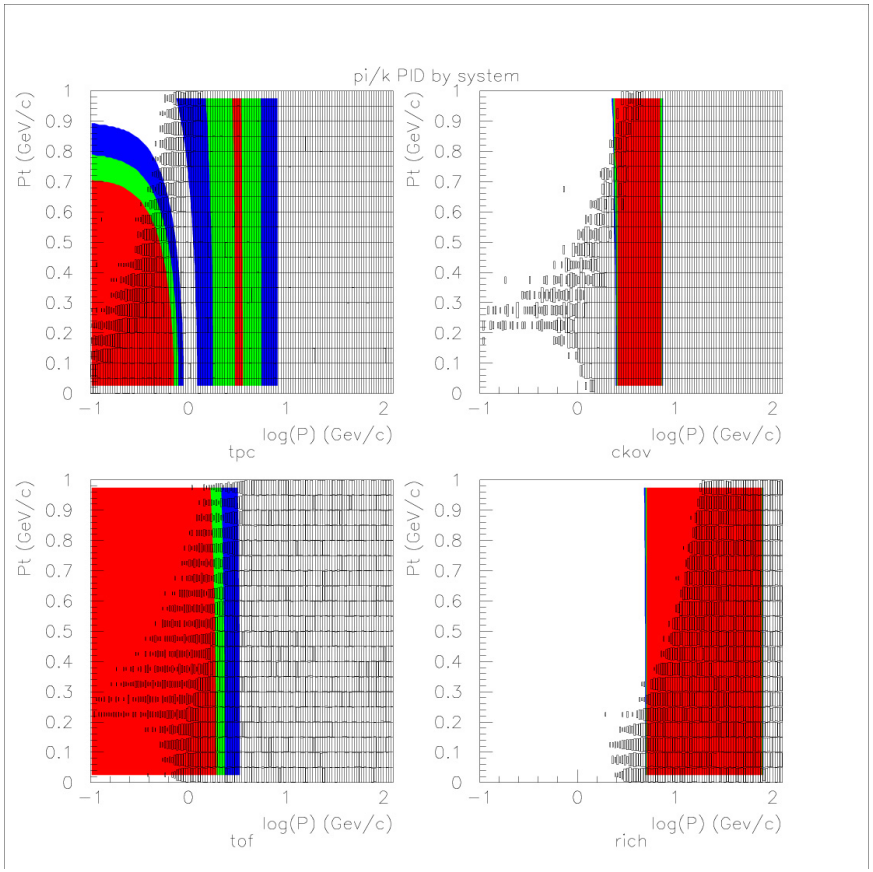
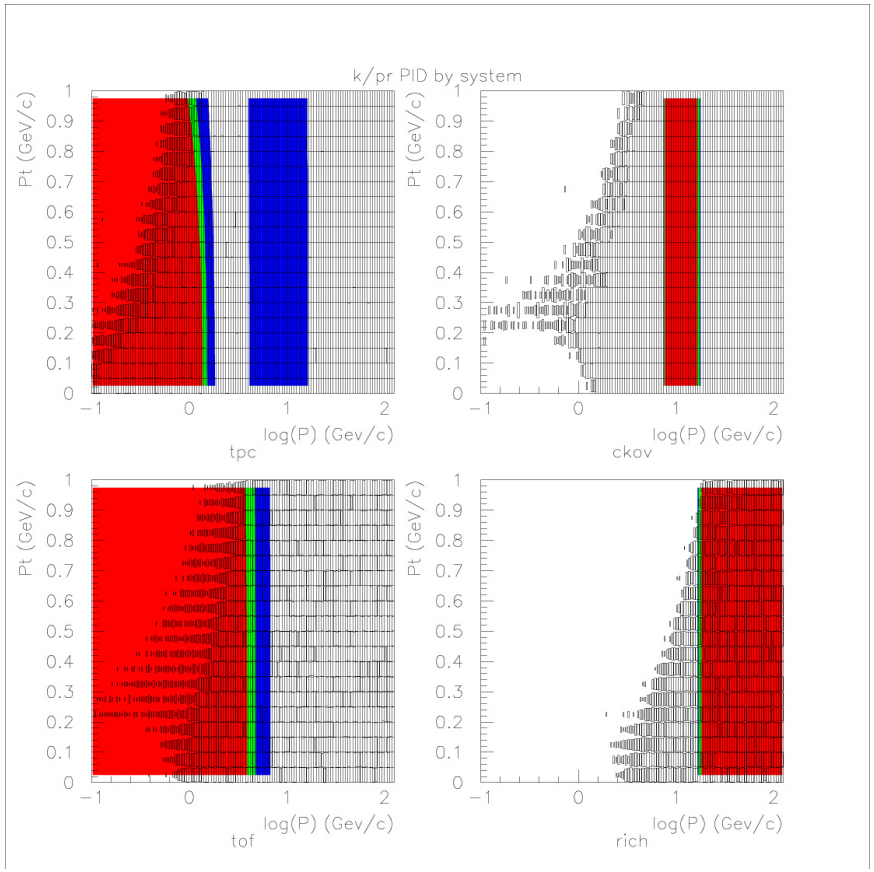
PID systems





Red > 3 σ, Green > 2 σ, Blue > 1σ, White > 0 σ

Boxes show acceptance

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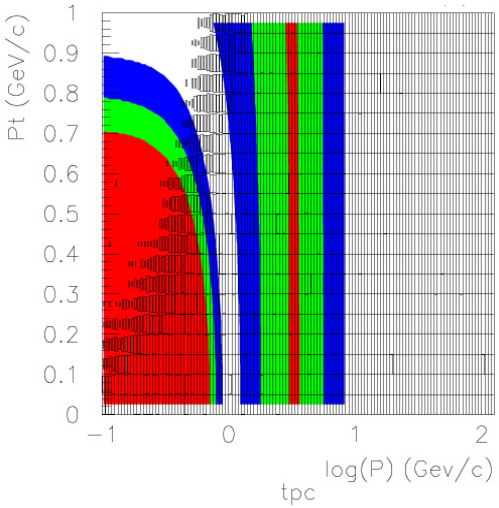
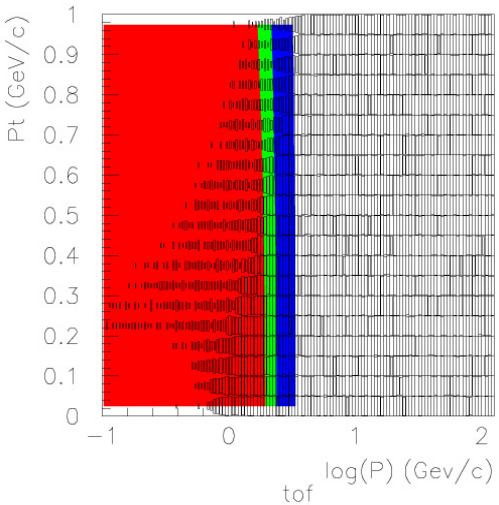
TOF resolution

TPC

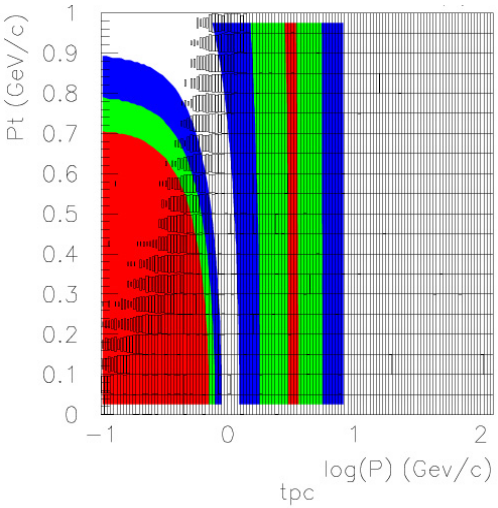


TOF

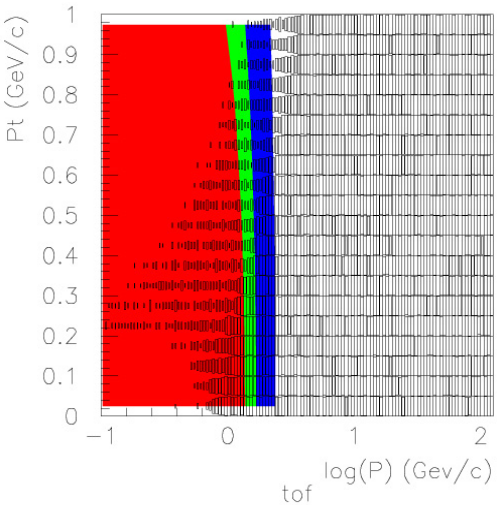


100 ns

TPC



TOF



200 ns

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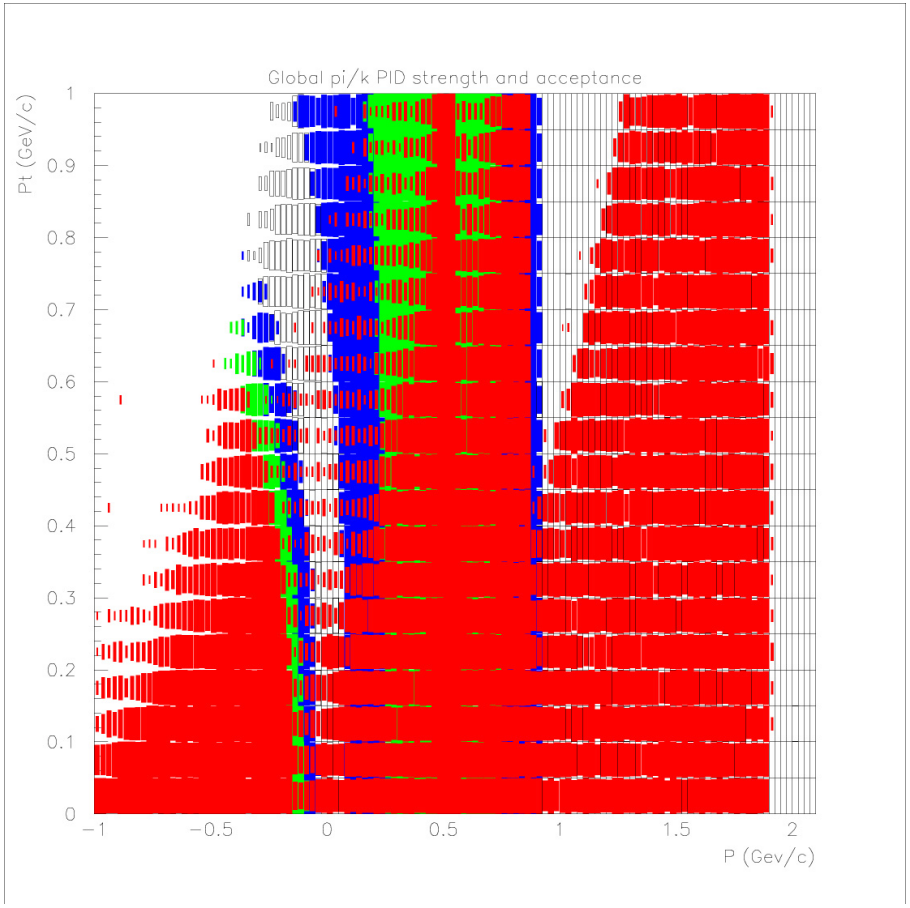
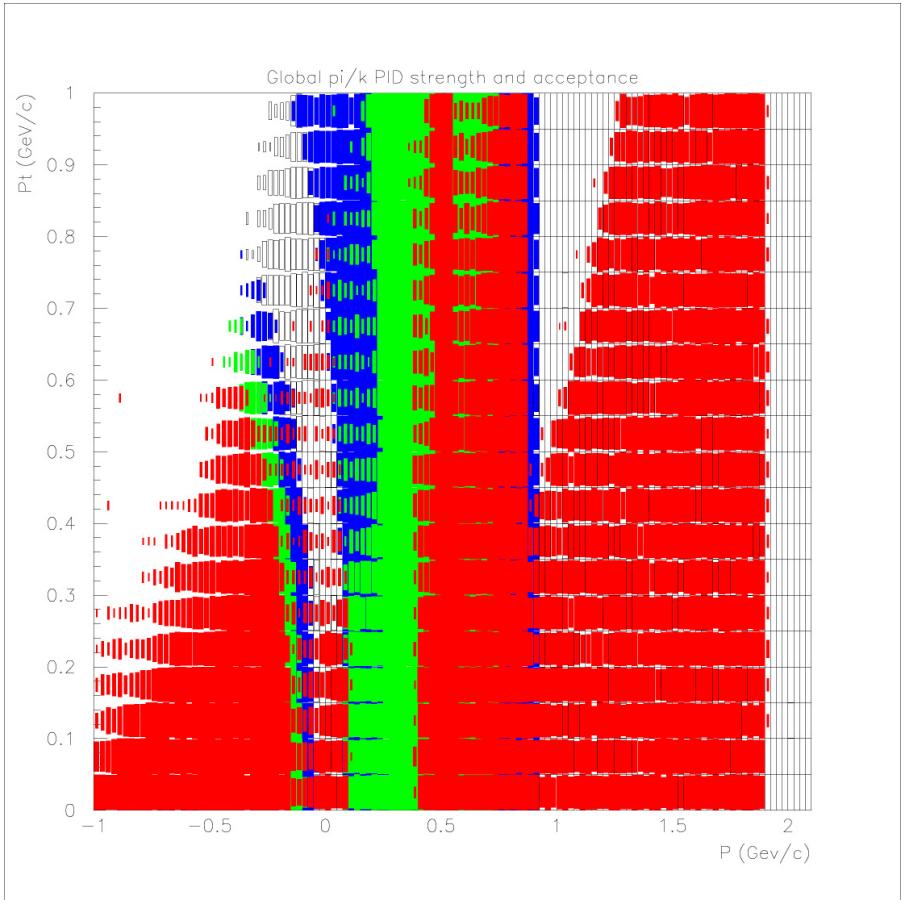
TOF comparison pi/k

100 ns



200 ns



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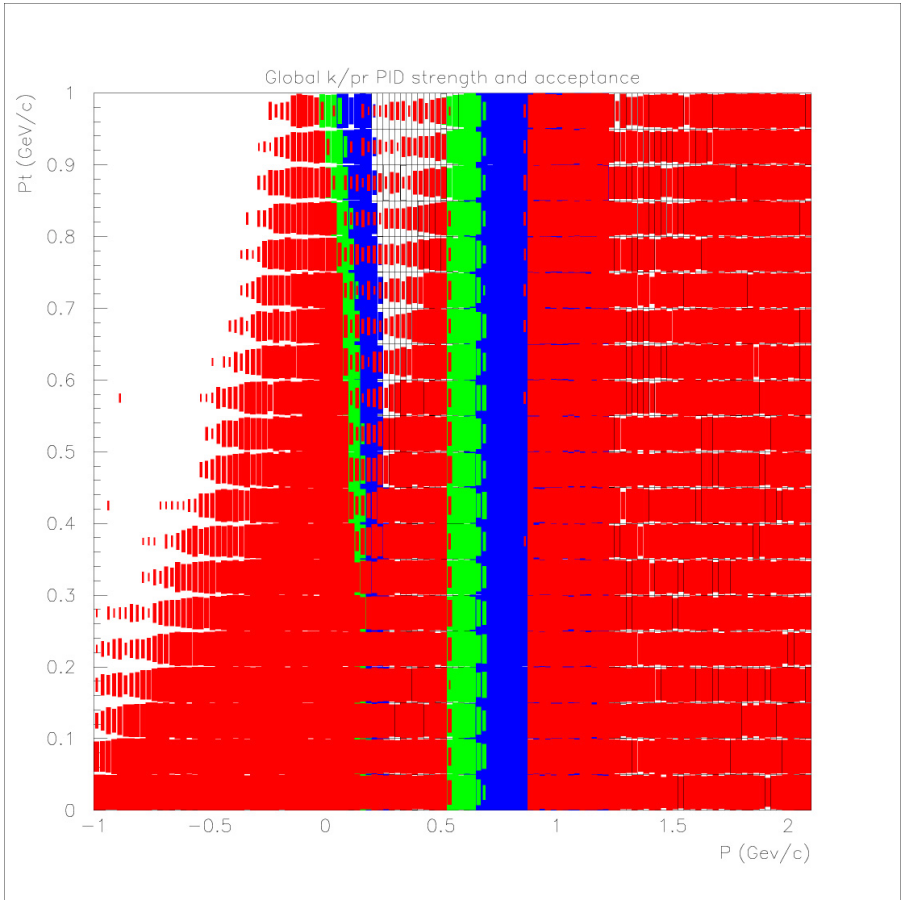
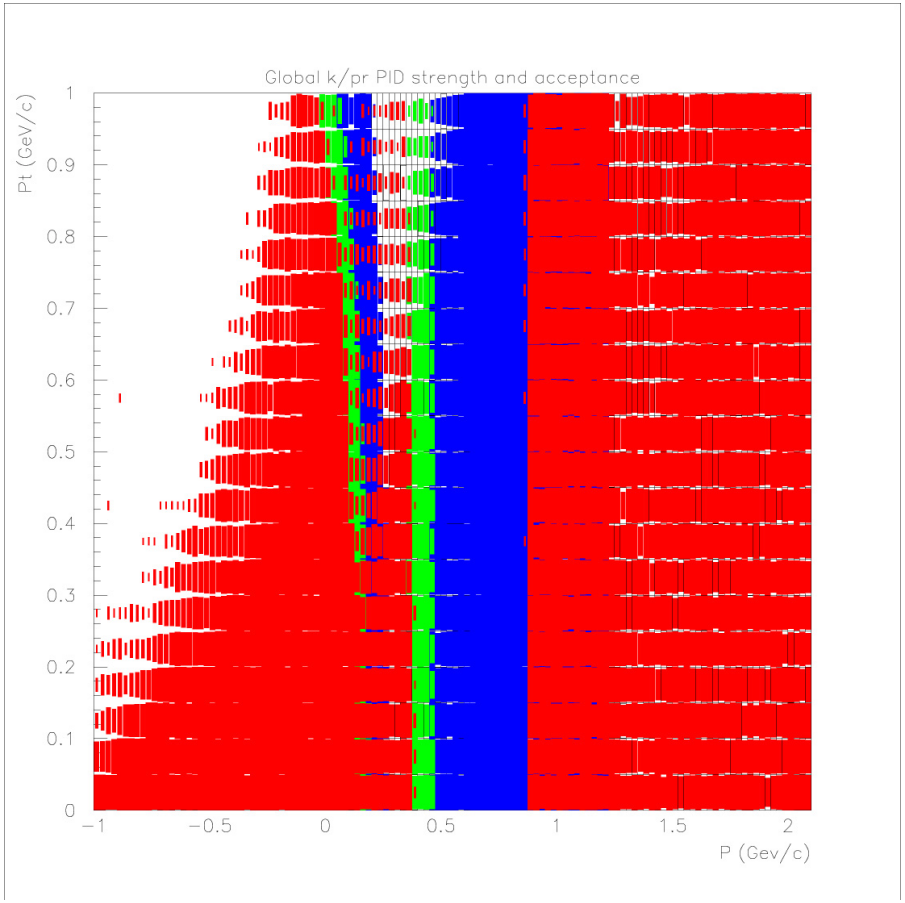
TOF comparison k/pr

100 ns



200 ns



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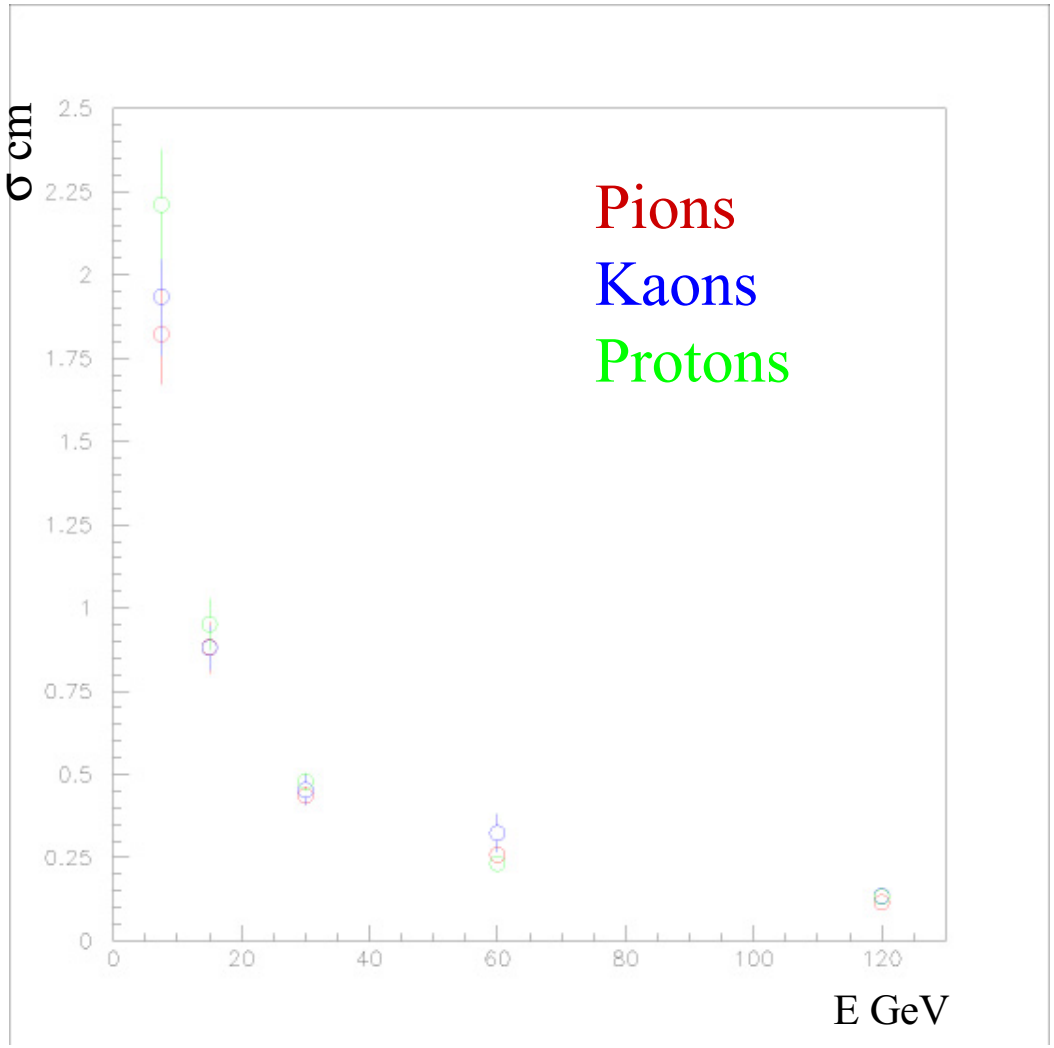
Multiple scattering spread at the front face of the calorimeter



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LLNL LC Computing Cluster

- CERNLIB installed by Ron
- Code imported
  - Currently working on compiling StdHep library
- Once we have code compiled and linked
  - Benchmark with LINUX based runs