

# *MIPP Update*

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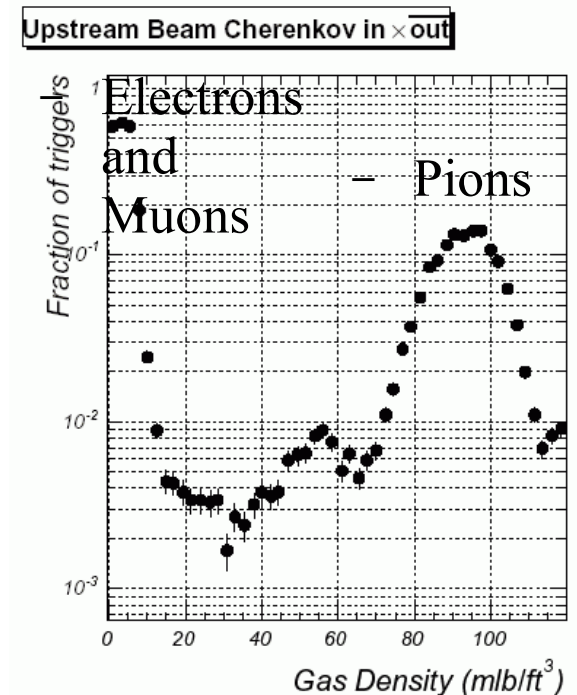
- Statistics
- Detector and Beam

# MIPP Statistics

- We continued last week to take H<sub>2</sub> data
  - Finish with -20 GeV/c on friday
    - 405671 in-spill events on tape (363221 interactions)
  - Started on +5 GeV/c after running pressure curves
    - Problems with beam quality and intensity are being worked on
    - ~80000 events, large fraction with bad beam quality
- The instantaneous data rate to tape has increased from 20Hz in January to 30Hz now.
  - Better beam quality causing less junk data to be read from the TPC
  - Other small improvements to code, pedestals, etc.

# MIPP detector status

- The detector was working well last week
  - Really no problems at all
- The trigger-system had to be modified slightly for data taking at 5GeV/c.
  - Even with heavy gas in the Bckovs p and k are below threshold
  - Identify pions in Bckov and separate p and K through Beam-ToF
  - No downtime other than pressure curve



# *MIPP beam status*

- The beam quality was problematic
  - Intensity was low for long periods, tune was bad after many shots, tuning sometimes was of limited success. MCR and External Beams (Carol, etc.) are doing their best.
  - Some of the MIPP beam problems are caused by problems upstream in the accelerator complex.

# *MIPP summary*

- We have been taking good physics data last week.
  - 5GeV/c is a challenge for beam tuning
  - We have mastered every challenge up to now
- Thin targets are next, including carbon thin target for NuMI
- 120GeV/c beam collimator will be installed first week in June