

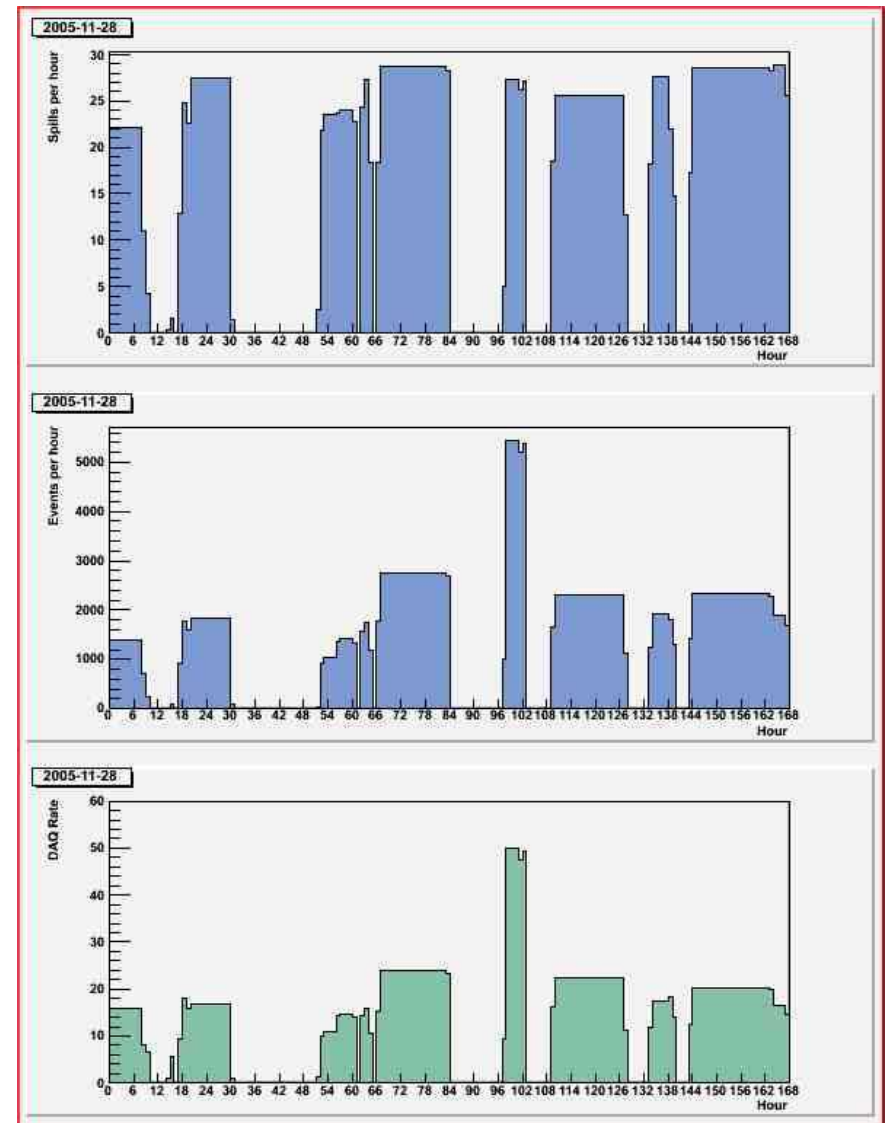
MIPP Status

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Fermilab All Experimenters' Meeting
12/5/05

- Statistics
- Beam and detector status
- Special runs · Beam Cherenkov PID purity and efficiency studies

MIPP Event Statistics

- -20 GeV/c and -85 GeV/c $\pi^+/\text{K}^+/\text{p}$ beam
- LH_2 target
- 236015 events recorded in 2792 spills with beam
- Pressure curves and Bckov study runs
 - Thursday (13 hours)
 - Friday (6 hours)
- e/μ run for calorimeter calibration
 - Friday (5 hours)



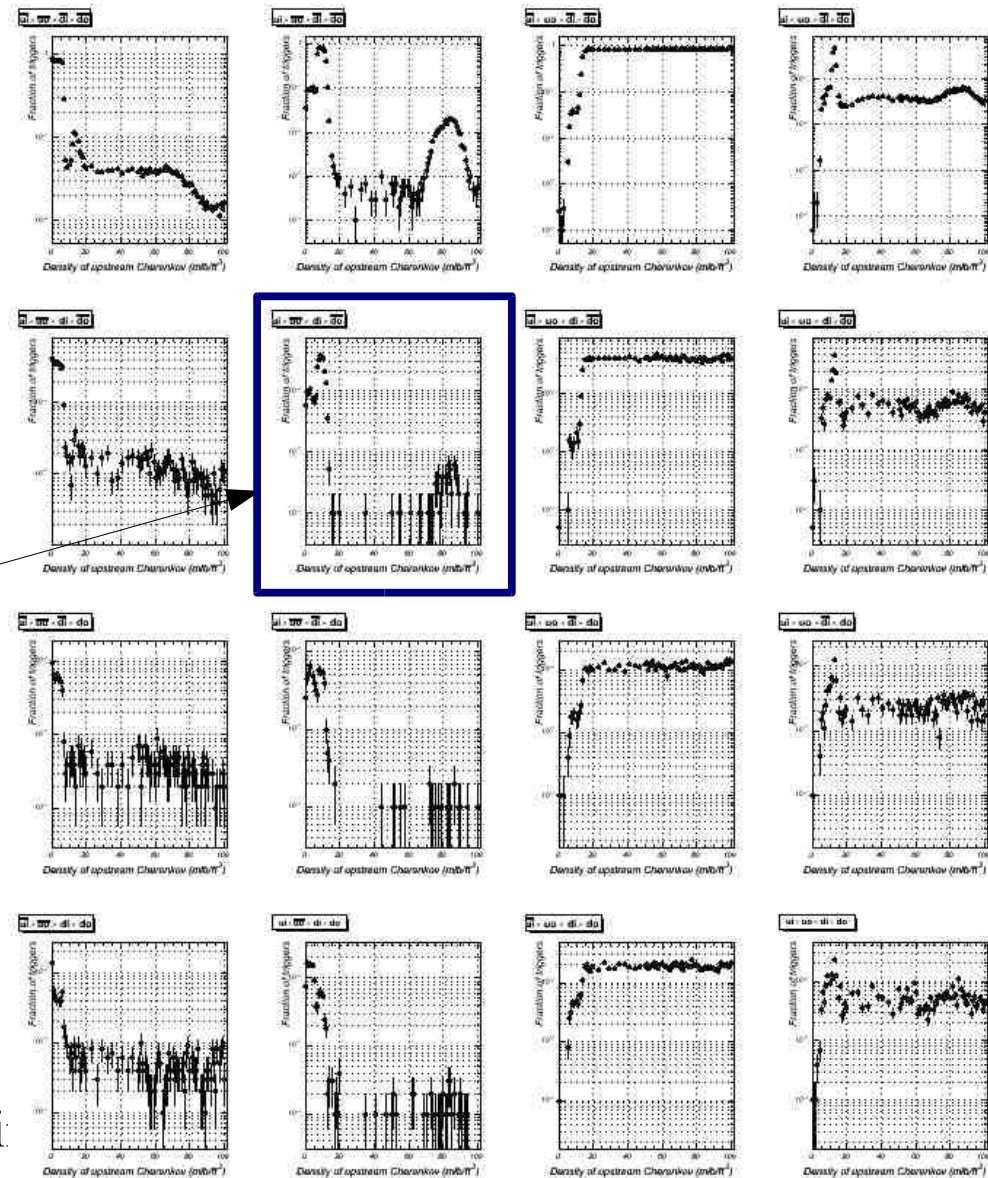
MIPP Beam and Detector Status

- Beam last week:
 - No significant problems
 - Secondary beam momentum shift after tuesday shutdown
 - Adjust Bckov pressure setting to correctly tag Kaons
 - Fast and smooth switch from -20 GeV/c to -85 GeV/c
 - Thanks to External Beams Group and MCR operators
- Detector has no significant problems.
 - DC4 HV trips · always resets ok
 - Magnet hall probe readback problems tuesday night
 - Magnet current readback was working
 - Steady data taking or special runs whenever beam was available.
 - Routine maintainance
 - Swap out failing Droge NIM-HV supply
 - Fill cryo-target compressor

Beam PID studies

- The RICH gives good information on beam PID purity and efficiency at high beam momentum
- At low beam momentum (e.g. 20 GeV/c) the two differential BCkov detectors can be calibrated against each other.
 - E.g.: BCkov 2 set to detect p-bar and scan BCkov 1 pressure over π and K peaks to get p-bar impurities

BCkov Pressure Scan 2005-12-01. -20 GeV/c.



MIPP Summary

- MIPP was taking physics data and special runs last week
- No significant problems
- Continue at -85 GeV/c this week