

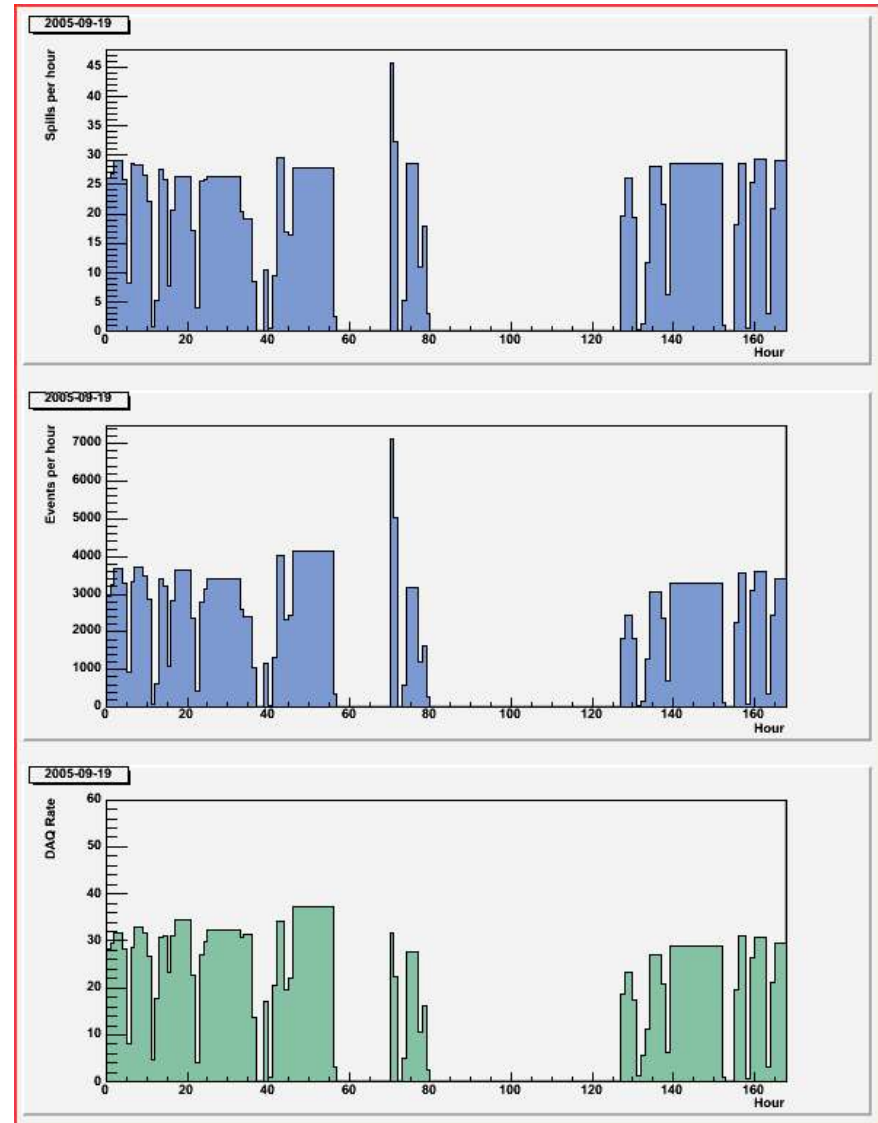
# *MIPP Status*

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Fermilab All Experimenters' Meeting  
9/26/05

- Statistics
- Beam and detector status
  - iFix and cryo-target

# MIPP Event Statistics

- Until 9/21 (wednesday) morning:  
Be, C, Bi targets  
+120 GeV/c protons
- 9/21 evening to 9/22 morning:  
secondary beams on thin targets
- Since 9/24 morning:  
secondary beams on LH<sub>2</sub>
- Week 9/19-9/25:
  - 289k events  
in 2308 spills
- On LH<sub>2</sub>:
  - 120k events



# *MIPP Beam and Detector Status*

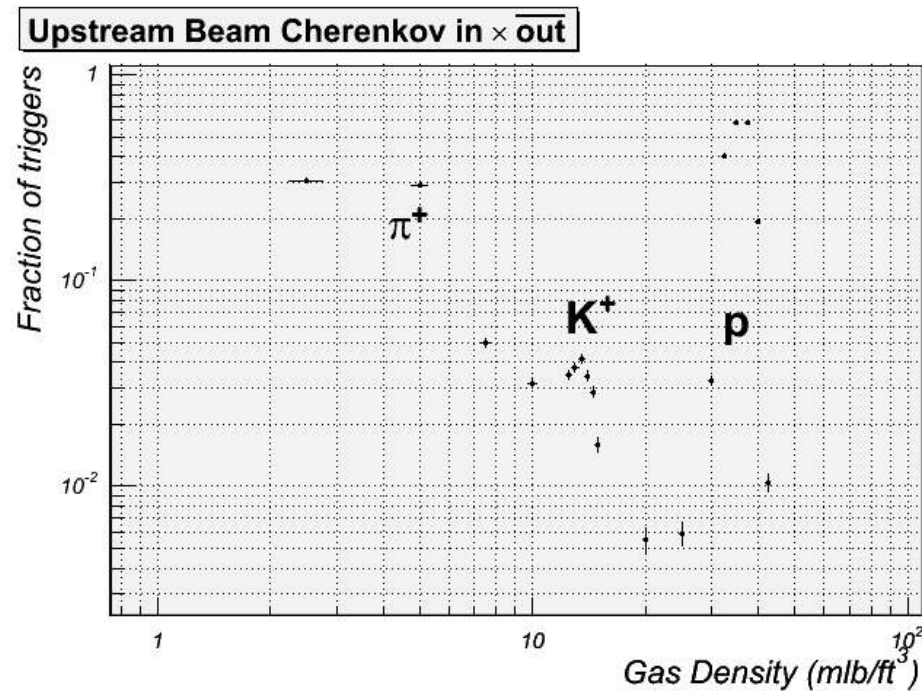
- The change to secondary beams and cryo-target was planned for last monday.
- The iFix control computer (pixel06) in Mtest had a hard disk failure during the weekend. The cryo-target cannot be controlled without this PC.
  - Replacement of the bad hardware and re-installation of all software did take until thursday.
    - Essential operations established wednesday afternoon
    - Historical data recording and other features thursday during the day
    - The APACS/iFix control system was shared between MIPP and BTeV-Pixel test-beam users. When BTeV disappeared this system did not get enough attention. We are now taking steps to have shorter downtimes on failures and get redundancy.
- The beam line was changed for secondary beam operation on wednesday.
  - TeV shot in morning and MI access in afternoon resulted in little lost time for MIPP.
  - **Secondary beams got established without any problems!**

# *MIPP Beam and Detector Status*

- MIPP ran secondary beams on the target wheel wednesday night.
- The cryo-target installation started thursday morning.
  - Target wheel was removed, interaction scintillator was re-mounted with mounting compatible with cryo-target and surveyed (9/22, 7am to noon).
  - Cryo-target was installed and aligned
    - The alignment took longer than expected (noon to 6pm).
  - No beam over night (could have run pressure curves)
    - Analysis magnets could not be turned until target got secured in aligned position next morning
    - Magnet-off beam permit was not issued.
  - Cryo-target leak-check and cool down (9/23, 5am to 9/24, 1am)
    - One safety valve had a small leak and one sensor had to be replaced
    - *The cryo-target is operating without any problems.*
  - Interlock problems in M02 and shot setup delayed beam until Saturday (9/24) morning, 7:30am

# MIPP Beam PID

- Pressure curves have been taken for both MIPP Beam Cherenkov detectors.
  - iFix is used to change the pressure in the BCkavs.
- 59 GeV/c secondary beam
- No problems with beam PID



# *MIPP Summary*

- MIPP changed operations from primary beam on thin targets to secondary beams on Cryo-target during the last week.
  - The iFix computer problem caused some changes in work schedules. Thanks to everybody for their patience.
- MIPP is now taking data on  $\text{LH}_2$  with 59 GeV/c beams. We will run 20, 59, and 85 GeV of both polarities.
- The exact run-plan depends on the accelerator shutdown date.