

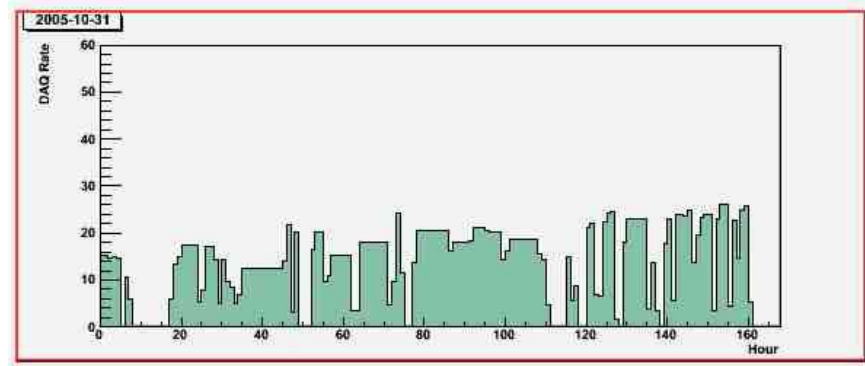
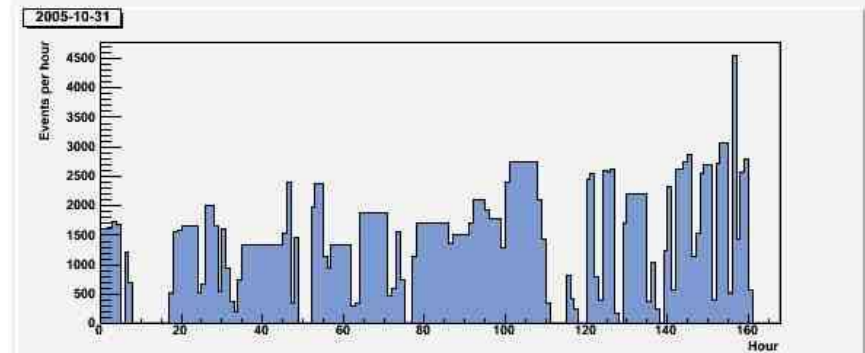
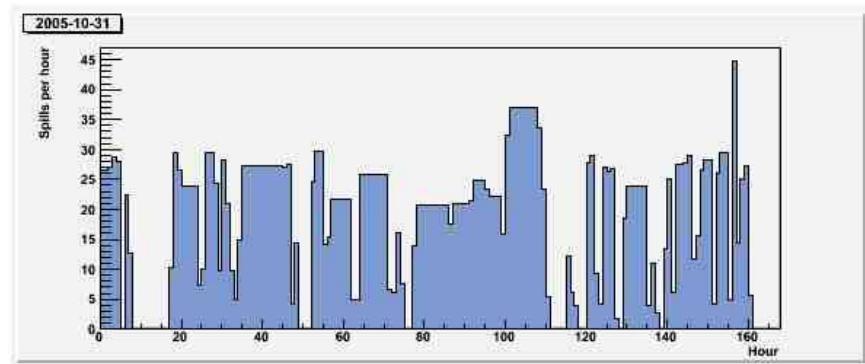
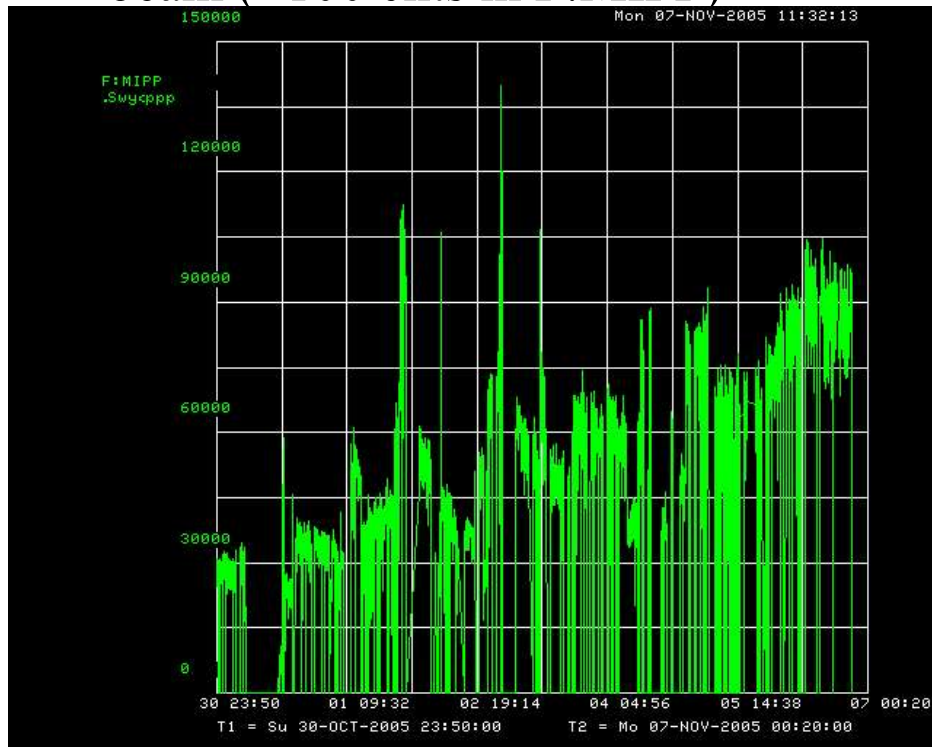
# *MIPP Status*

Holger Meyer  
Fermilab All Experimenters' Meeting  
11/7/05

- Statistics
- Beam and detector status

# MIPP Event Statistics

- +20 GeV/c  $\pi^+$ / $K^+$ /p beam
- LH<sub>2</sub> target
- 225,300 events recorded in 2,963 spills with beam
- AD delivered 3398 spills with beam (>100 cnts in F:MIPP)



# *MIPP Beam and Detector Status*

- Beam last week:
  - Aligned primary target on monday (8am to early afternoon)
  - Tune improved :)
  - Power supply close to Main Injector failed, got repaired, but has been drifting somewhat since. Also F:MC6Q2 is drifting slightly.
    - Frequently need to tune
    - Experts not always available
  - Interlock drops in MC8: optical system replaced with mechanical switch
  - Spills are usually 4.08 seconds long, but last week spills were often shorter, down to 3.7 seconds.
- Lots of small detector issues:
  - Nothing really bad, but it adds up (~12 hours over the week).
  - Several short power failures -> DAQ crashes, HV trips, Network trouble, ...
  - 1440 HV readback errors causing HV trips (friday-sunday)
  - TPC electronics initialization problems

# *MIPP Summary*

- MIPP was taking data last week with several minor problems on both the beam and the detector.
- These problems are fixed or are being worked on.
- We will switch to -20 GeV/c later this week.

# MIPP Statistics - Details

| Time                | F:MIPP | Evts | Epoch      |
|---------------------|--------|------|------------|
| Sun Oct 30 23:51:42 | 30794  | 58   | 1130737907 |
| Sun Oct 30 23:53:41 | 24447  | 52   | 1130738026 |
| Sun Oct 30 23:55:40 | 28858  | 66   | 1130738145 |
| Sun Oct 30 23:57:39 | 30006  | 59   | 1130738264 |
| Sun Oct 30 23:59:38 | 26077  | 60   | 1130738383 |
| Mon Oct 31 00:01:37 | 27792  | 57   | 1130738502 |
| Mon Oct 31 00:03:37 | 29705  | 64   | 1130738621 |
| Mon Oct 31 00:05:35 | 29574  | 60   | 1130738740 |
| Mon Oct 31 00:07:34 | 29460  | 61   | 1130738859 |
| Mon Oct 31 00:09:34 | 28971  | 58   | 1130738978 |
| Mon Oct 31 00:11:33 | 30487  | 62   | 1130739097 |
| Mon Oct 31 00:13:32 | 28532  | 60   | 1130739216 |
| Mon Oct 31 00:15:31 | 21     | 0    | 1130739335 |
| Mon Oct 31 00:17:30 | 18     | 0    | 1130739454 |
| Mon Oct 31 00:19:29 | 22     | 0    | 1130739573 |
| Mon Oct 31 00:21:28 | 14     | 0    | 1130739692 |
| Mon Oct 31 00:23:27 | 19     | 0    | 1130739811 |
| Mon Oct 31 00:25:26 | 28444  | 57   | 1130739930 |
| Mon Oct 31 00:27:25 | 28844  | 68   | 1130740050 |
| Mon Oct 31 00:29:24 | 30049  | 62   | 1130740169 |
| Mon Oct 31 00:31:23 | 30841  | 61   | 1130740288 |
| Mon Oct 31 00:33:22 | 29153  | 62   | 1130740407 |
| Mon Oct 31 00:35:21 | 23     | 0    | 1130740526 |
| Mon Oct 31 00:37:20 | 29858  | 60   | 1130740645 |
| Mon Oct 31 00:39:19 | 28647  | 62   | 1130740764 |
| Mon Oct 31 00:41:18 | 29023  | 62   | 1130740883 |
| Mon Oct 31 00:43:17 | 28532  | 59   | 1130741002 |
| Mon Oct 31 00:45:16 | 29871  | 63   | 1130741121 |
| Mon Oct 31 00:47:15 | 11     | 0    | 1130741240 |
| Mon Oct 31 00:49:14 | 27434  | 54   | 1130741359 |
| Mon Oct 31 00:51:13 | 27713  | 58   | 1130741478 |
| Mon Oct 31 00:53:12 | 29805  | 58   | 1130741597 |
| Mon Oct 31 00:55:11 | 28034  | 54   | 1130741716 |
| Mon Oct 31 00:57:10 | 29877  | 56   | 1130741835 |
| Mon Oct 31 00:59:09 | 29235  | 57   | 1130741954 |
| Mon Oct 31 01:01:08 | 25212  | 62   | 1130742073 |
| Mon Oct 31 01:03:07 | 26535  | 54   | 1130742192 |
| Mon Oct 31 01:05:06 | 29035  | 58   | 1130742311 |
| Mon Oct 31 01:07:05 | 30669  | 59   | 1130742430 |
| Mon Oct 31 01:09:04 | 28147  | 53   | 1130742549 |
| Mon Oct 31 01:11:03 | 29479  | 60   | 1130742668 |
| Mon Oct 31 01:13:02 | 27322  | 62   | 1130742787 |