MIPP Status

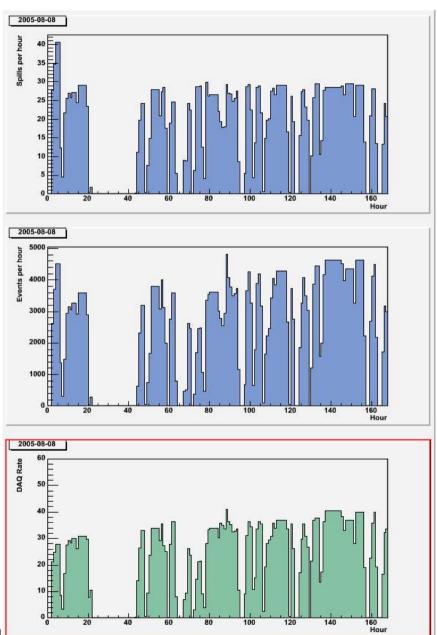
Holger Meyer Fermilab All Experimenters' Meeting 8/15/05

- Statistics
- Beam and detector status
 - Accelerator 53 MHz rf impact on MIPP DAQ

8/15/05

MIPP Event Statistics

- Be, C, Bi targets +120 GeV/c protons
- Last week only:
 - 396364 events in
 2942 spills with beam
- Total 120 GeV on thin targets:
 - 595k events on Be, C, Bi plus empty target
 - Goal (priority 1)2.38 million events



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MIPP Beam and Detector Status

- No beam issues over the last week.
 - Beam size, position, and intensity were ok with no more than the usual small interruptions
- The detector was running well and data quality was good *most* of the week.
- The MIPP DAQ was not taking data from monday evening to tuesday after the Booster rf repairs. ~12 hours of beam was lost.
 - Detectors are read out through 6 ppcs in VME running linux.
 - These ppcs get synchronised timestamps for each trigger from VirGen boards based on accelerator rf (provided through CCTV system)
 - 53 Mhz rf signal was changing over a large range in amplitude and phase starting around 19:00 on monday evening.
 - Synchronization across ppcs failed, leading to data corruption, DAQ crashes
 - Rf is also used for triggering, detector live time, etc.
 - Beam shows the 19ns structure \Rightarrow MIPP wants to use accelerator rf.
- JGG power supply MC7AN1 had internal short, fixed without downtime 8/15/05 Holger Meyer, All Experimenters' Meeting, Fermilab

MIPP summary

- MIPP is taking data with 120 GeV/c protons on Be, C, and Bi.
- Accelerator rf problems impacted MIPP data taking last week. This problem is fixed and not expected to repeat.