

MIPP Update

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Fermilab All Experimenters' Meeting
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- Detector status
 - TPC repair
- First beam at MIPP after shutdown
- Cryo-target status

TPC repair

- Monday night the TPC broke a wire
 - Some HV trips before this, always carefully ramped up HV and monitored current
 - Everything looked reasonably good up to monday night
- MIPP TPC repair expert (David Miller) came to FNAL on wednesday
- We extraced two broken wires from the anode plane
 - No other wires broken during the repair
 - One field shaping wire must have broken first and damaged an anode wire
- TCP is closed up and ready to operate again
- We will not operate it without further precautions
 - Power line conditioners for the circuits that power the TPC HV
 - Droge supplies rather than LeCroy1440

MIPP detector

- Drift Chambers and Beam Chambers see beam profiles
- Trigger work has started, timing, interaction trigger studies, etc.
- Beam Cherenkovs: 40GeV pressure curve was taken to compare to August
- JGG and Rosie are off (TPC repair)
- ToF, Calorimeters are ok.
- PWCs: premix P8.5/CF₄ ordered, now on Ar/CO₂
- Alignment/survey work complete (except cryo-target)
- A leak in the roof in MC7 was fixed last week. Now we have another one.

Beam to MIPP

- MIPP had first beam on target last week
 - THANK YOU!
- One pulse per minute, short slow spills (0.3 sec)
- Bad beam quality
- Mostly ok for what we are doing now

Cryo-target

- All assembled in Mtest and ready to go, except...
- The H₂ supply line developed a small leak
 - Air/water in H₂ supply would freeze inside the coil in the cold head, not good
- Should be fixed tomorrow, then get 1H₂ in target cell in Mtest
 - Filament in the leak detector burned out, no spare leak detector available

MIPP summary

- We are taking lots of beam data
- A lot of progress during last week