

# *MIPP Update*

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Fermilab All Experimenters' Meeting  
1/3/05

- MIPP beam studies
- Detector status
- Cryo-target

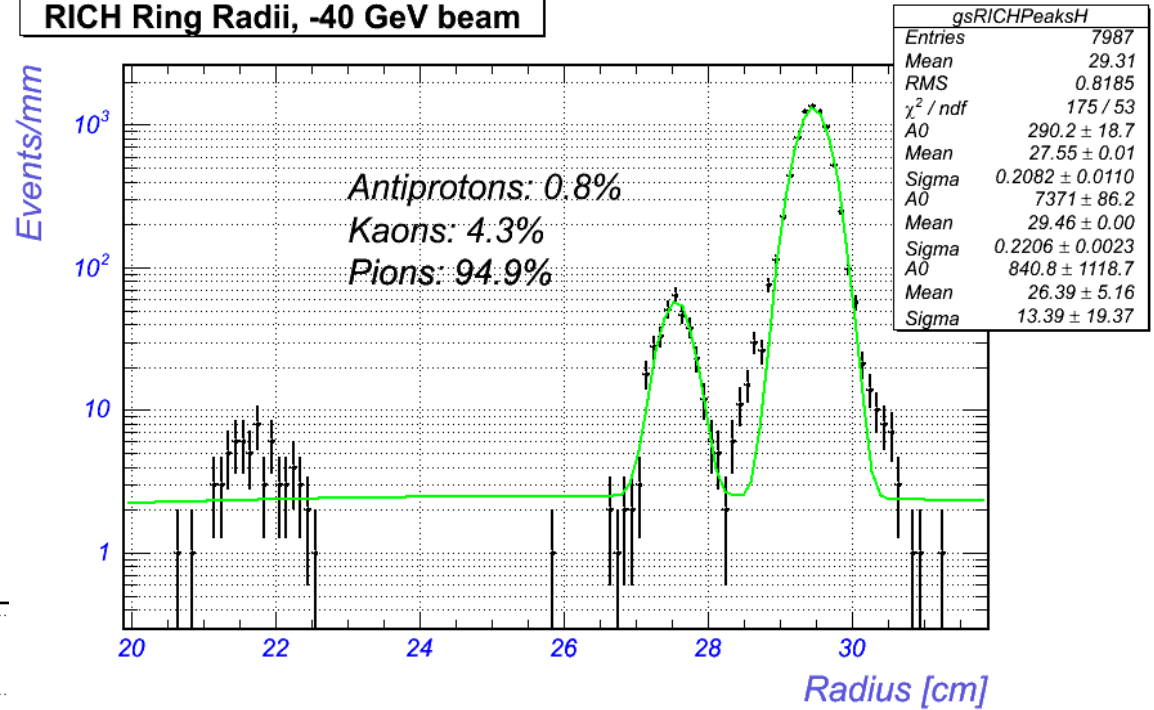
# *Beam to MIPP*

- MIPP took beam with few interruptions over the last two weeks: mixed mode most of the time :-)
- We established tunes for 15, 20, 30, 40, 50, 60 GeV/c of both positive and negative beam.
  - Good beam tunes at these settings. Work continues at lowest and highest momenta
- We ran density curves in the beam Cherenkov detectors and studied beam pid purities at all these beam settings
  - Good  $\pi/K/p$  pid at all momenta
- Slow extraction sometimes did not work well
  - MIPP needs long and steady slow spills

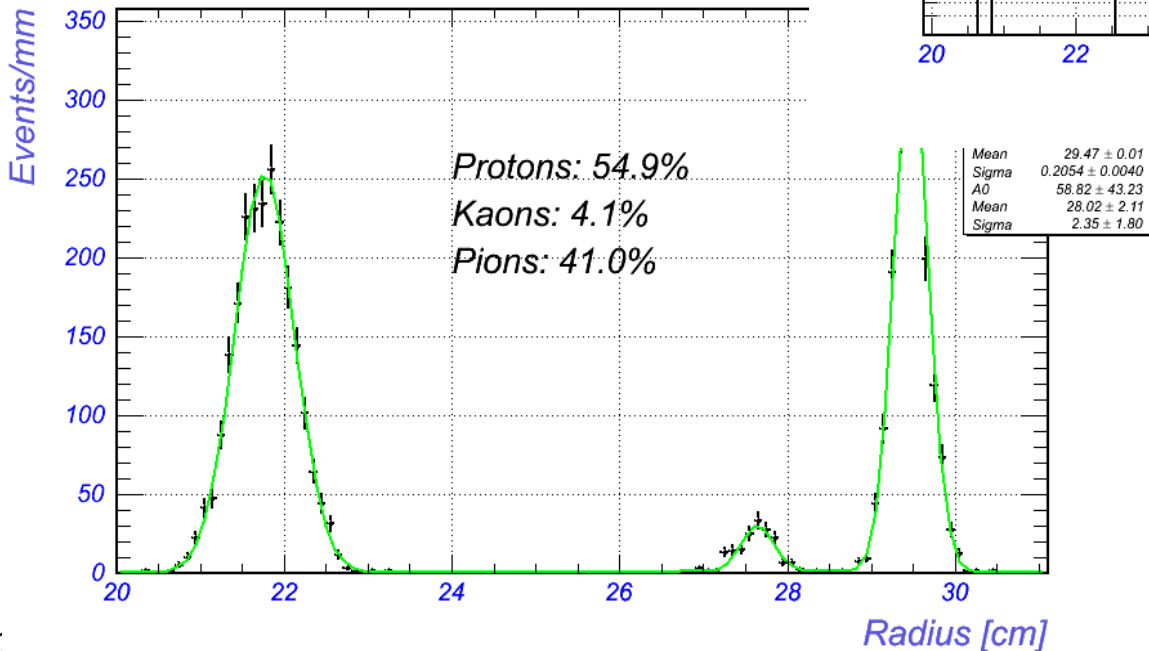
# MIPP Beam PID

- Beam composition

RICH Ring Radii, -40 GeV beam



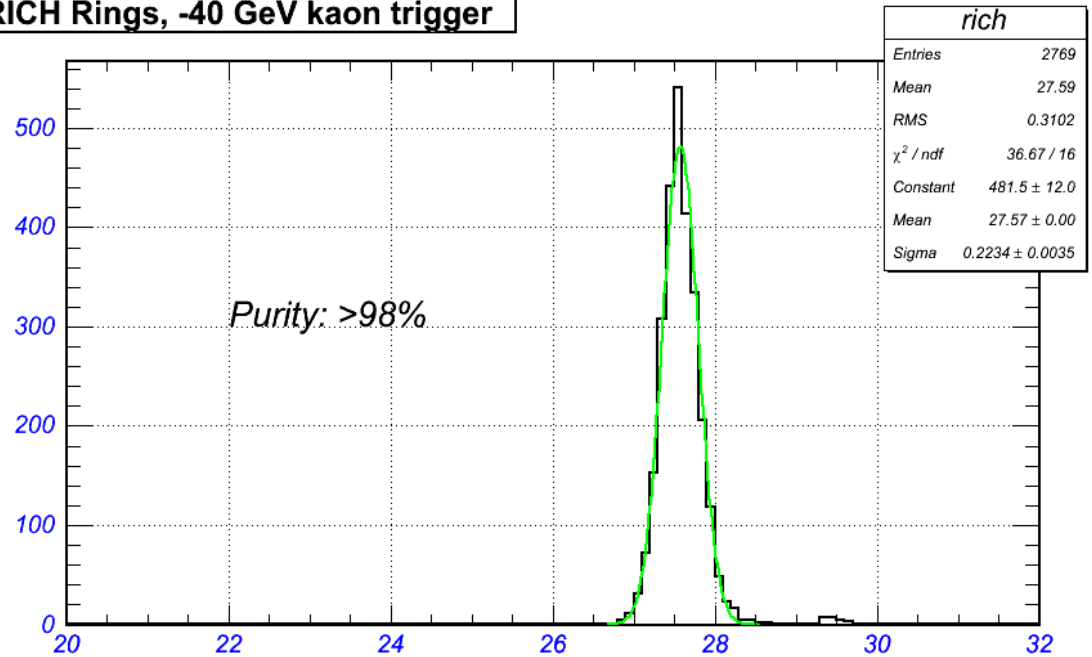
RICH Ring Radii, +40 GeV beam



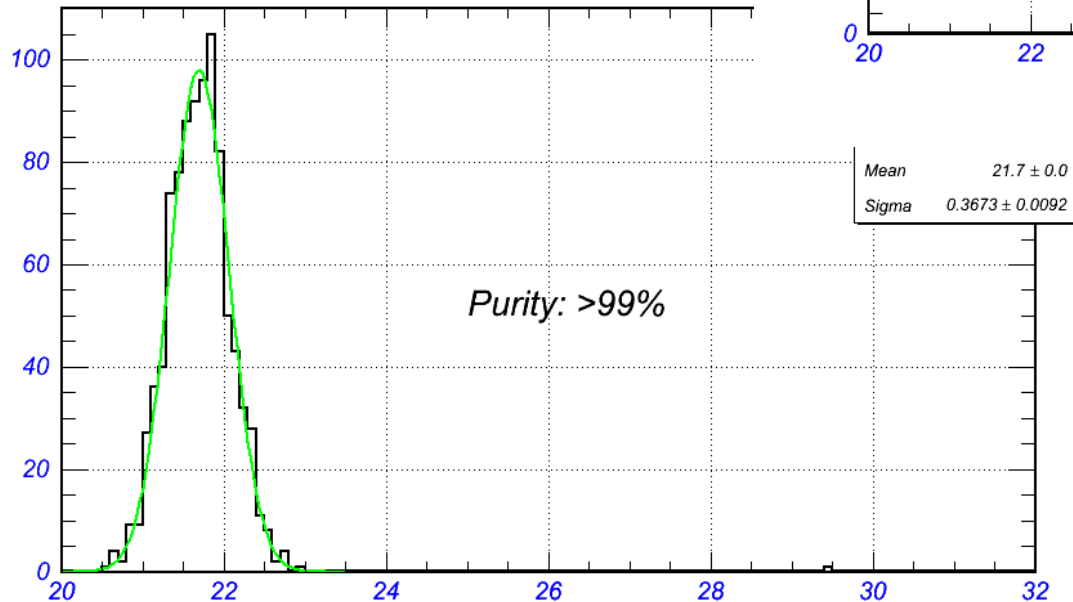
# MIPP Beam PID

- Beam PID purity

RICH Rings, -40 GeV kaon trigger



RICH Rings, -40 GeV proton trigger



# *MIPP detector*

- BC1 150A fuse was replaced (12/24)
- DC gas system problems solved (12/22)
- T00 counter was fixed after it was moved
- PWC gas system modified to use premixed Ar/CH<sub>4</sub>/CF<sub>4</sub> gas
- Spill gate and out-of-spill trigger
- Ckov electronics commissioned, gas consumption ok
- Nuclear targets have been loaded into the target wheel (Be, C, Al, Cu, Ag, Bi)
- TPC was fixed (again) on 12/19-12/21/04
- TPC was run outside the JGG. Some anode sections trip sometimes.
- TPC was pushed into JGG on 1/1/05
- TPC is working, no broken wires. Some anodes continue to trip sometimes.

# *Cryo-target*

- 1<sup>st</sup> try for cooling on 12/28
  - Found leak in one of the cryo-valves
- Fix this and try again this week.

# *MIPP summary*

- We have done a lot in the past two weeks.
- Commissioning is not quite done yet, but getting close.