

# MIPP Update

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# Data statistics, Mar 28-Apr 4

- Run 13572 Total of 98 hours of running at 85 GeV/c
  - 39025 spills, 1950 empty (5%)
  - 35 hours with positives, the rest with negatives
  - 6.6 spills per minute average
- Very few interruptions to beam once AC has been fixed to cool the hall

# Data summary

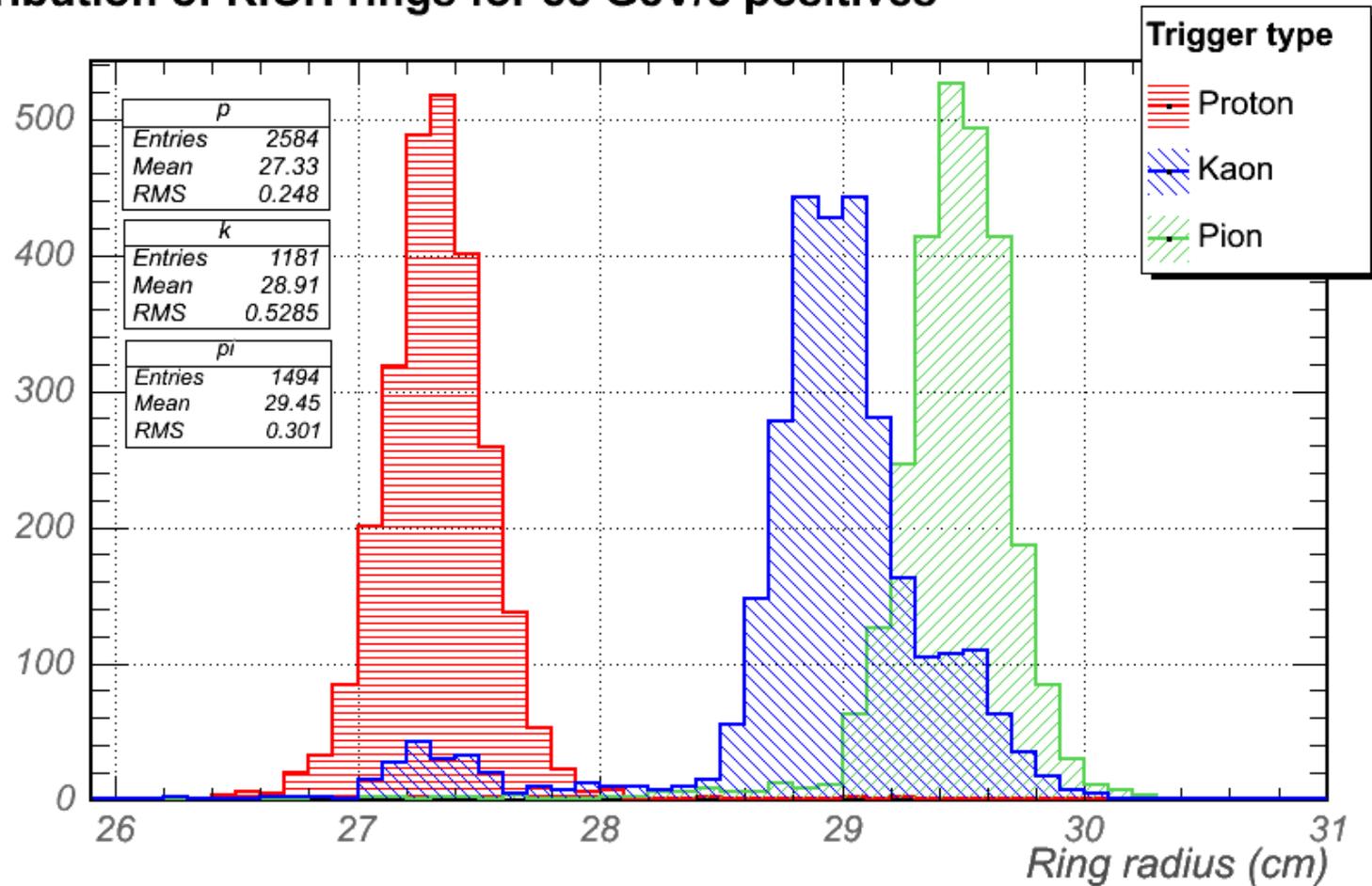
- +85 GeV, Full cryo target: 371208 triggers
  - 17646 kaon interactions
  - 69719 pion interactions
  - 170152 proton interactions
- -85 GeV, Full/Empty target: 333392/134446 triggers
  - 97205/38767 kaon interactions
  - 114183/43542 pion interactions
  - 2940/970 pbar interactions

# 85 GeV is fairly hard

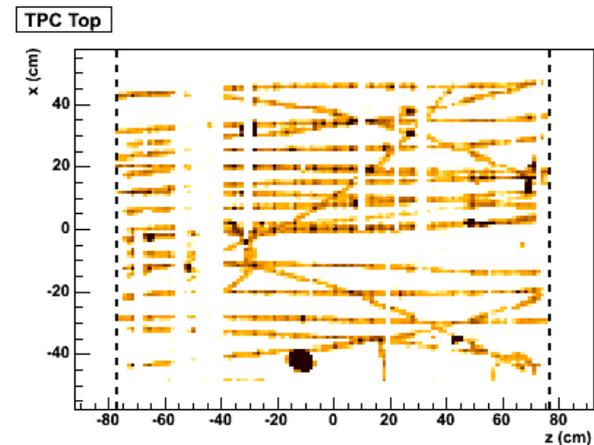
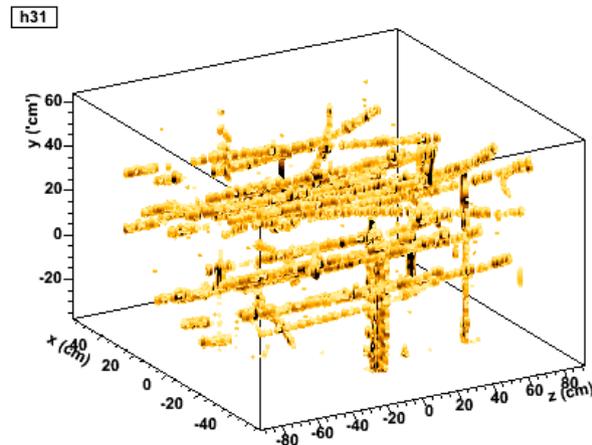
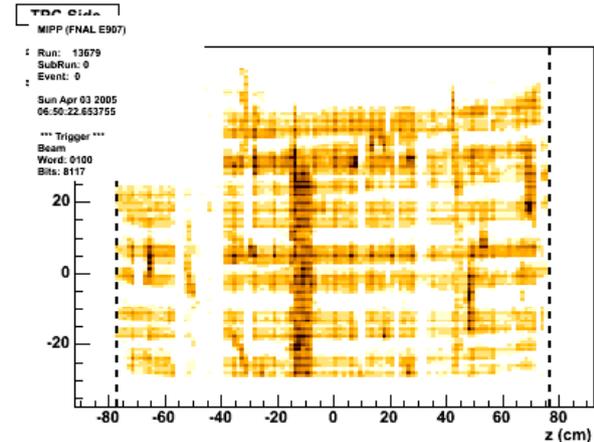
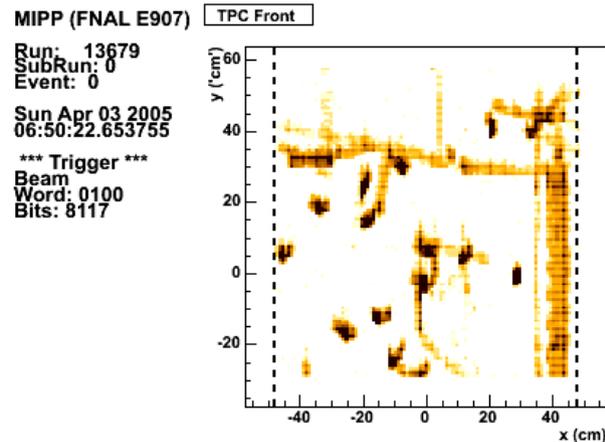
- Online kaon particle identification is only 78% pure
  - At 59 GeV it is over 95% pure
- Require high primary intensity for negatives
  - $1.7e10$  ppp
  - Generate a lot of background

# Trigger purity at 85 GeV/c

Distribution of RICH rings for 85 GeV/c positives



# Lots of “Junk” with negatives



We will be able to clean up events using all available info

# Far from everything looks bad...

