


## The Test Beam (4 $4^{\text {th }}$ August- $14^{\text {th }}$ August)

- The beam
- H2B at the SPS-CERN
- Officially from $4^{\text {th }}$ to $10^{\text {th }}$ August (but SPS problems)
- Thanks to COMPASS-Shashlik from $14^{\text {th }}$ to 15 th
- The data
- 6-7 August Muons \& Pions
(Gain inter-calibration)

| $-14-15$ August : 205000 Muons |
| :---: |
| -15 August $: 150000$ Pions preliminary |

- 15 August : 150000 Pions


## The Test Beam ( $4^{\text {th }}$ August- $14^{\text {th }}$ August)

- The setup
- trigger: 3 scintillators in coincidence
- 3 MicroMegas 6x16 pads
- 1 MicroMegas $12 \times 32$ pads
- Iron absorber option
- DAC from subatech : CENTAURE


Iapp.


## Temperature and pressure

$>$ show quite little variations

## $>$ Previous

 results :-Pressure dependency: < 5 ADC/mbar

- No temperature dependency observed
$>$ No correction for a first step


- 




Iapp.

## Tagging usefull events

## Platinum events

- One single hit per chamber
$\Rightarrow$ the cleanest events
- Pedestal \& gain studies


## Gold events

-One single hit for at least 3 chambers
$\Rightarrow$ Clean events
-Efficiency \& Xtalk studies for the last chamber



## MIP signal observed on every single channel


$>$ Pedestal means : aligned and constant over time

Pedestal Mean distribution






## Efficiency simulation for a typical channel


lapp.

## Efficiency simulation for a typical channel



## Efficiency Measurements

## Using Gold events

-Prerequisite : Offline alignment with Platinium events
-One single hit for at least 3 chambers
-Check if the three reference hits form a straight line
-Check if the tested chamber shows some hit(s) in a $3 \times 3$ square centred on the expected hit


## Efficiency Maps



## Multiplicity Measurements

## Using Gold events

-One single Hit for at least 3 chambers
-Check if the three reference hits form a straight line
-Check if the tested chamber shows a hit in the expected area
-Count the Number of hits in the $3 \times 3$ square around expected pad


## Multiplicity Measurements

## Results for 76500 events in one Chamber



## Further Analysis

> Compare pions data whith muons' (~180 000 events)
>Improve every study and refine results
$>$ Analyse the effects of showers in our MicroMegas
>...

