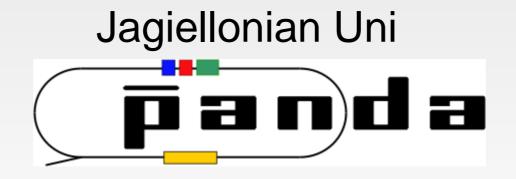
Occupancy Studies for the new FTS`s geometry

Jacek Biernat



Menu:

The 1st simullation:

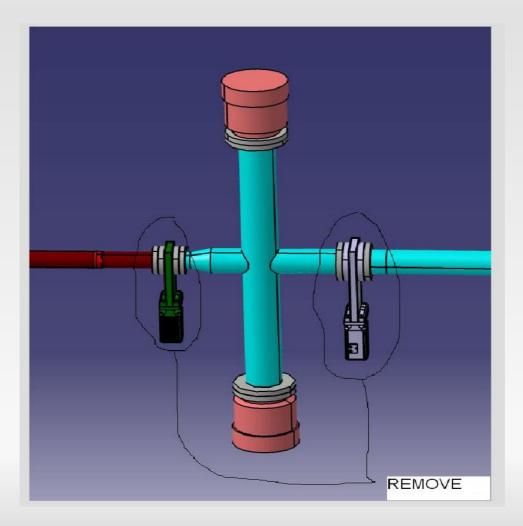
- DPM model was used for pbar-p@15 GeV/c
- 20 000 events were simulated
- Assuming 2 x 10⁷ reactions/s
- New FTS geometry, FT5 and FT6 is now closer to each other
- Beam pipe geometry without valves

The 2nd simulation:

- Urqmd model was used for pbar- N@15 GeV/c
- 12 000 events simulated
- Same geometry as mentioned above
- Assuming 10⁷ reactions/s

The beam pipe

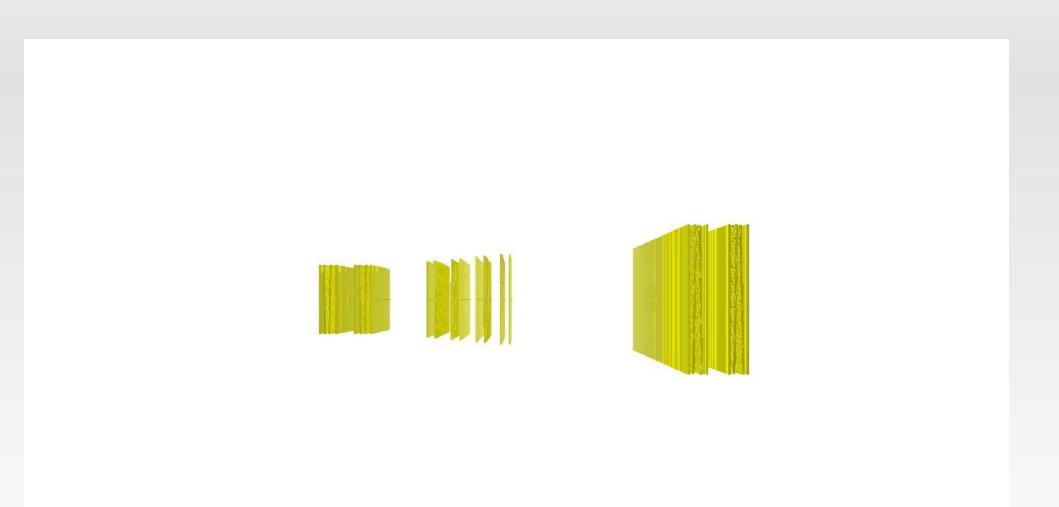
Valves removed from the beam pipe



The "OLD" FTS setup



New Forward Spectrometer Geo



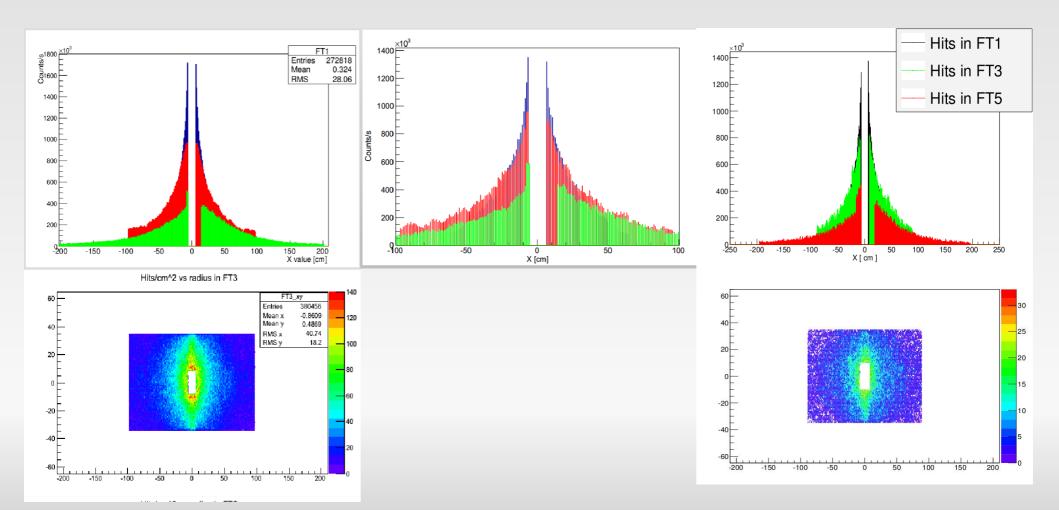
Old vs new 1st

pbar-p@15 GeV/c

Old FTS & old pipe

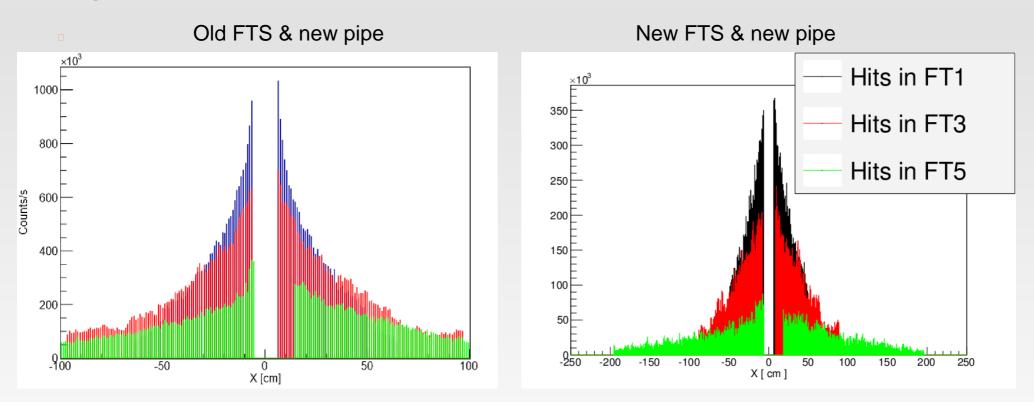
Old FTS & new pipe

New FTS & new pipe

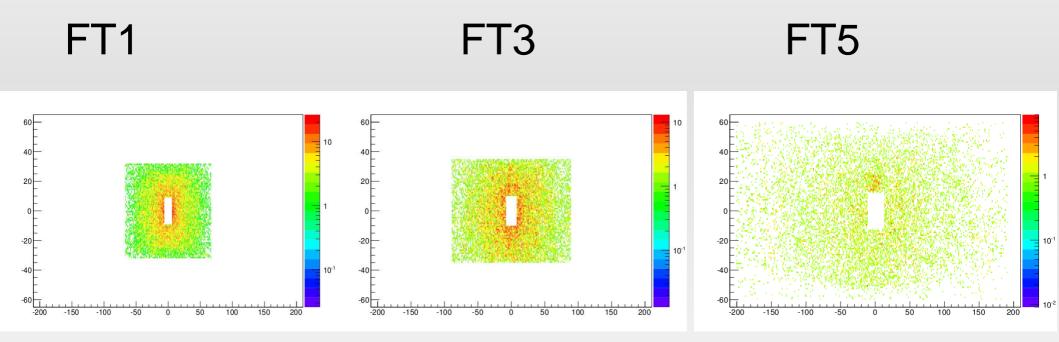


Old vs new 2nd

pbar-N@15 GeV/c

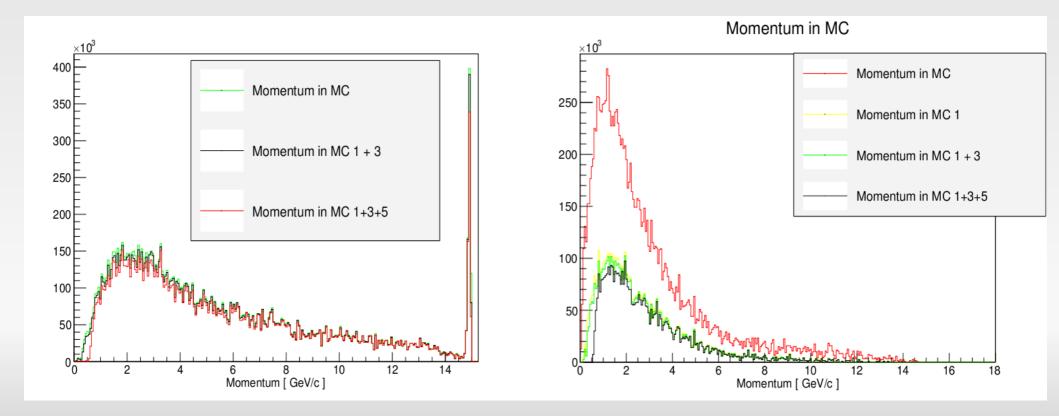


Hits for diffrent FTS stations



Momentum acceptance

pabr-p
new FTS geo

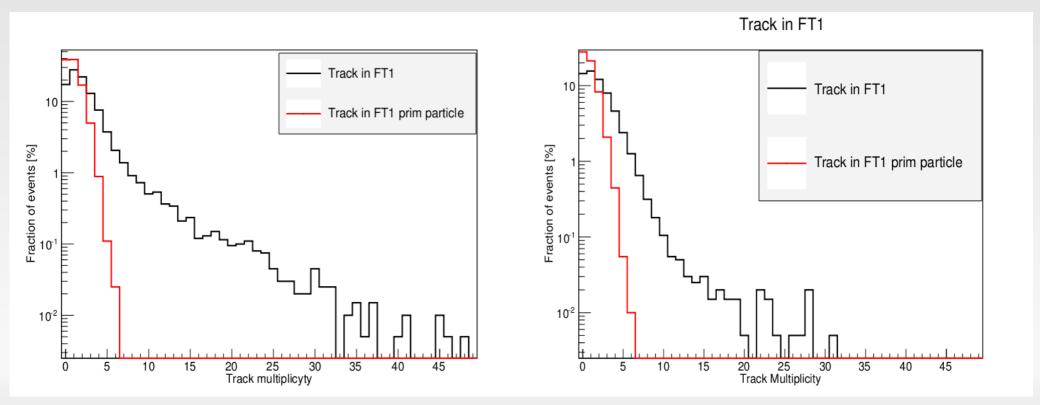


VS

pbar-N

Tracku primery vs secondary particles

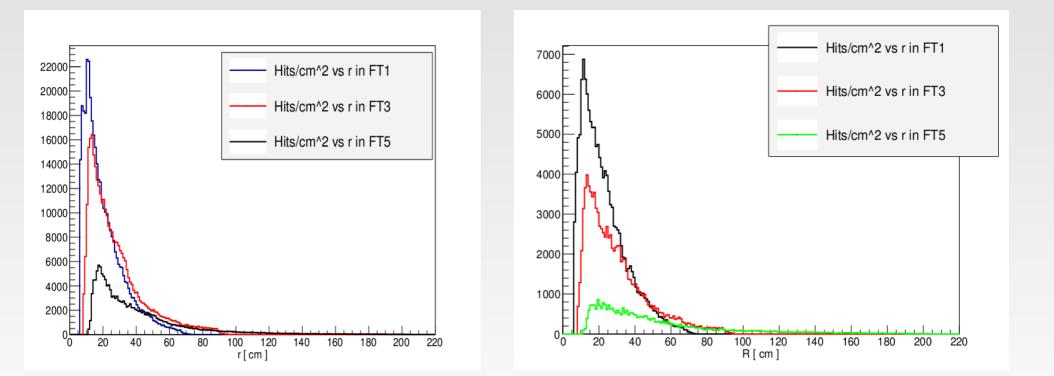
pbar-p vs pabr-N



Hits in Tracking Stations

pbar-p

pbar-N



VS

Summary

 An improvemnt in the reduction of background comming from scaterd particles (visible in FT3 and FT5 stations for pbar-p), especiali visible for the pbar-N scenario

No high momentum particles visible in acceptance of the detector for pbar-N