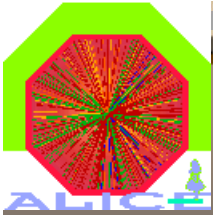


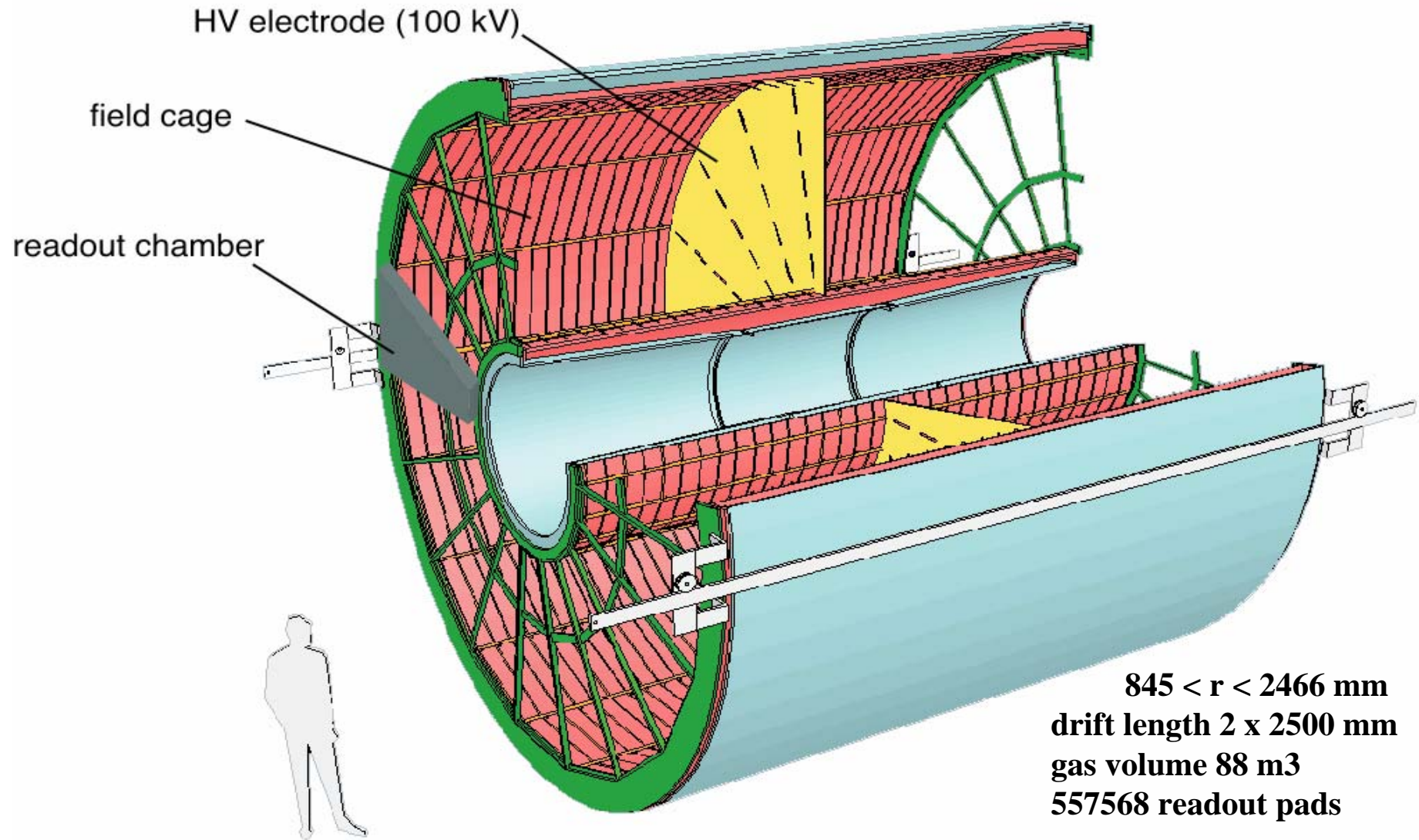
2006 LHC DAYS IN SPLIT  
05.10.2006.

# ALICE TPC

D.VRANIC



# ALICE TPC Layout



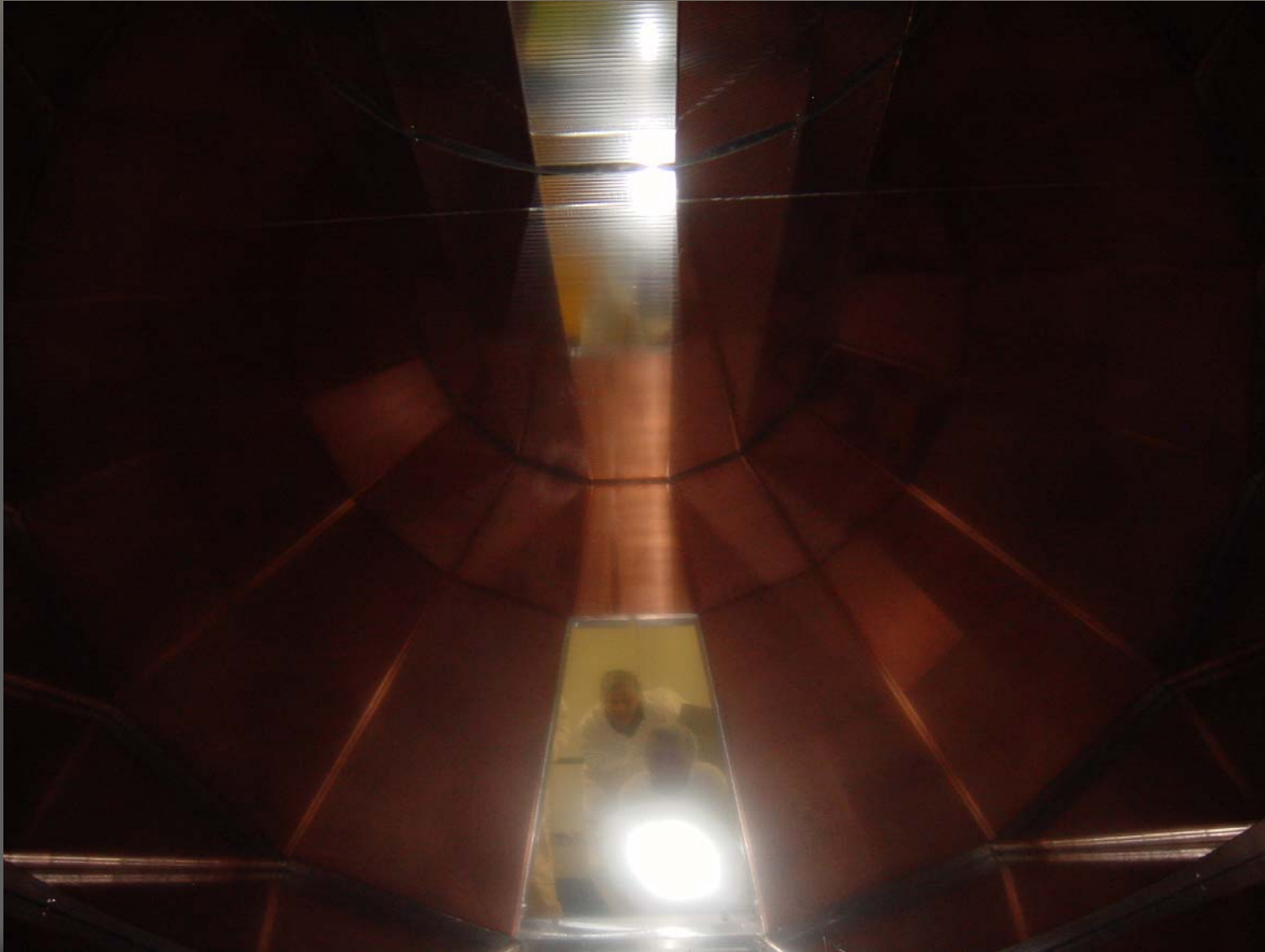


# Field cage



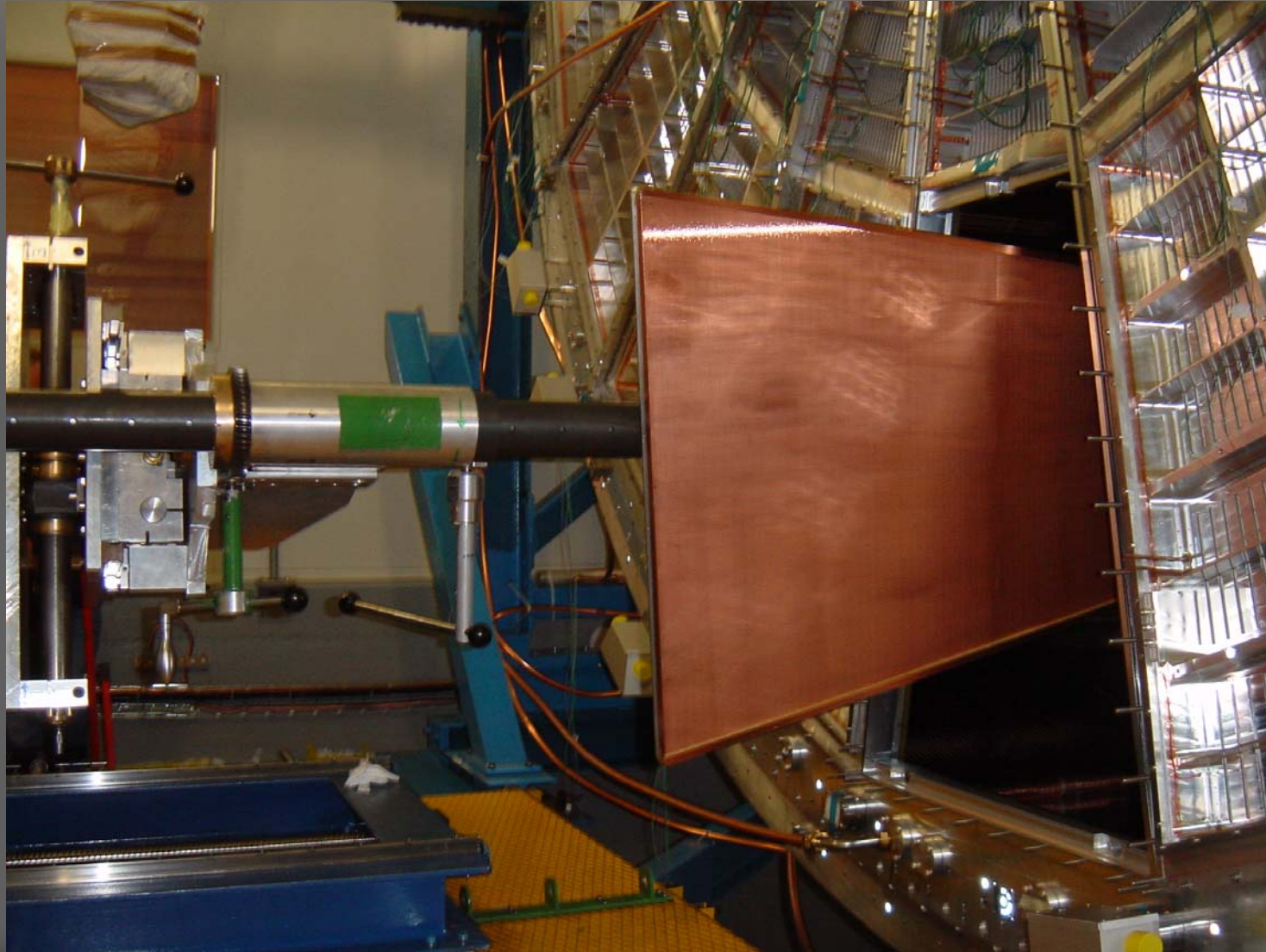


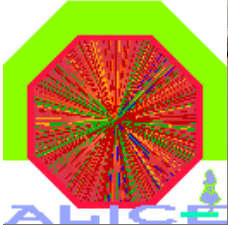
# Last(?) look Inside



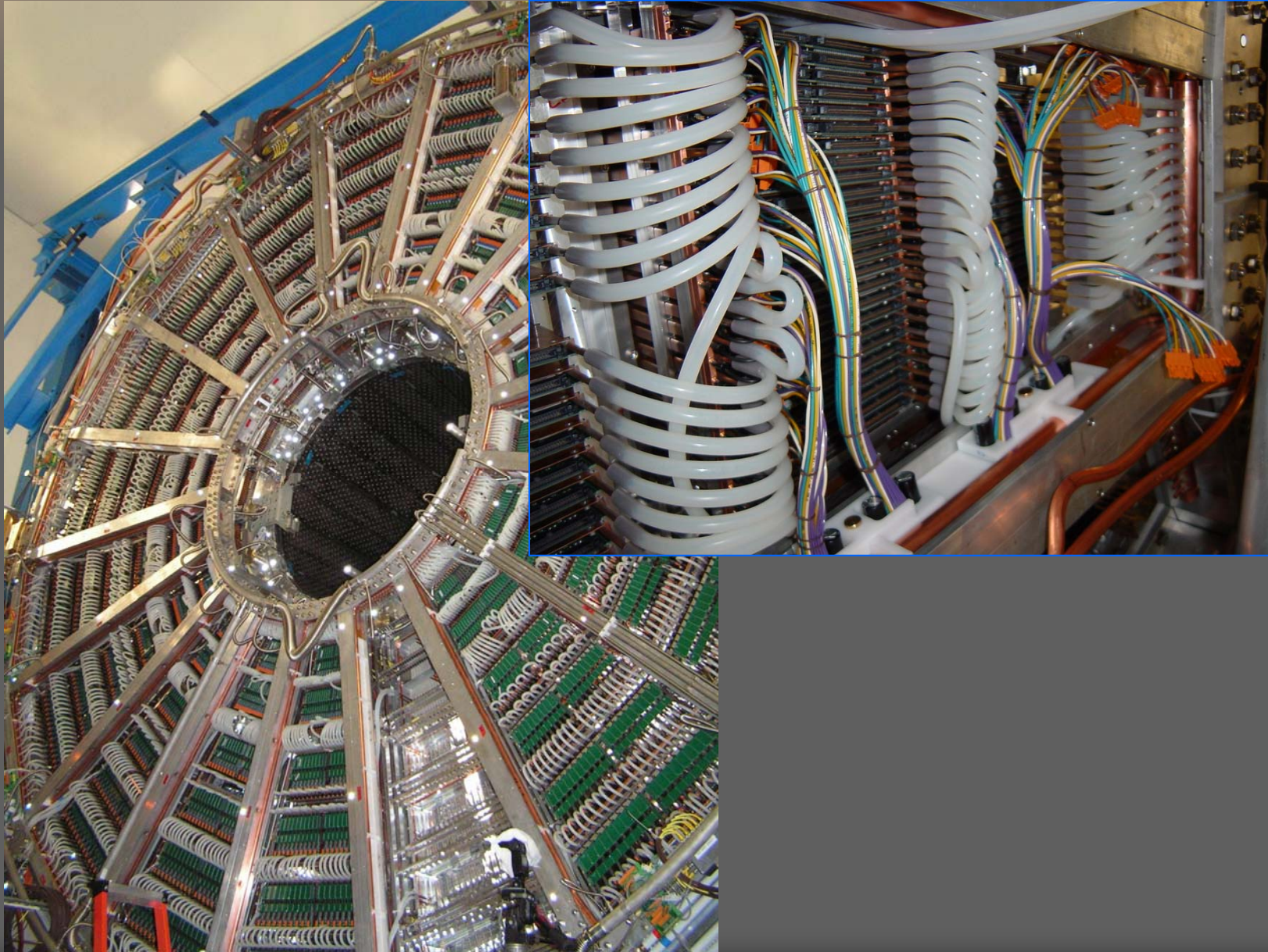


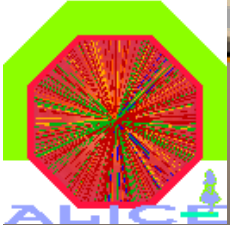
## Last module insertion





# C Side





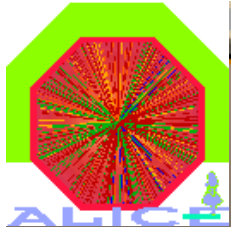
# Gas System

Control Backup Mixer Purifier CO2 Distr Analys Pump



Previously commissioned with dummy volumes at SLXL2

← Post-distribution rack (finally to be located in the cavern)



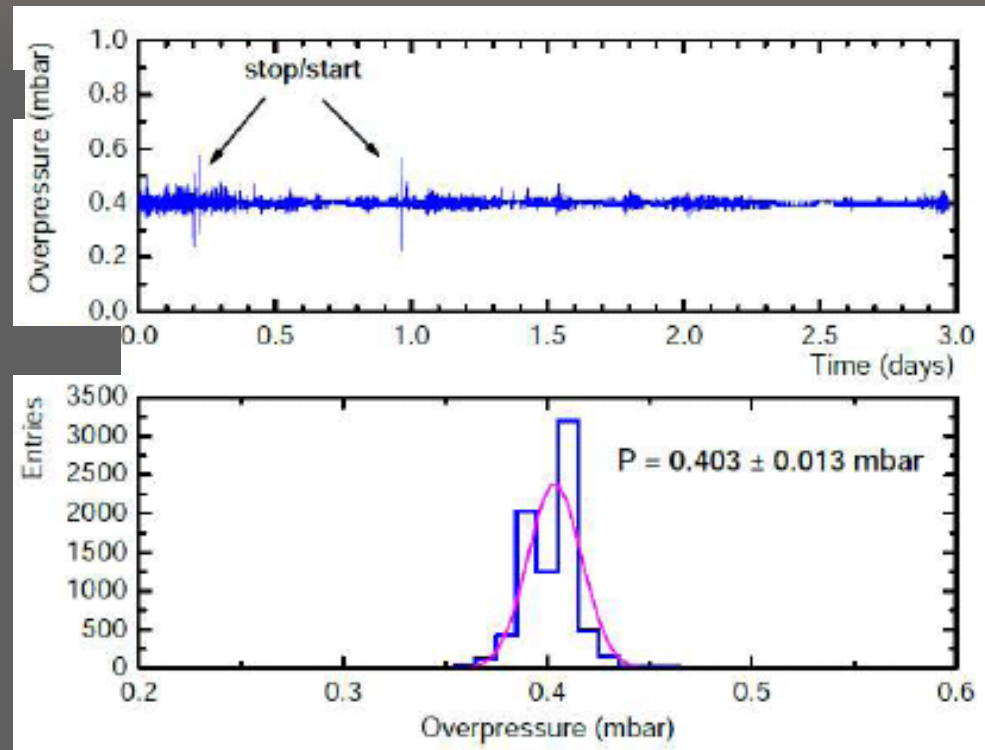
# Pressure stability

## Run

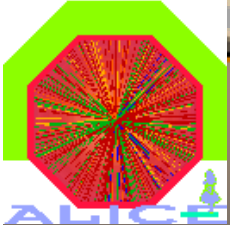
- Excellent stability
- 5 -10 ppm O<sub>2</sub>

## In progress

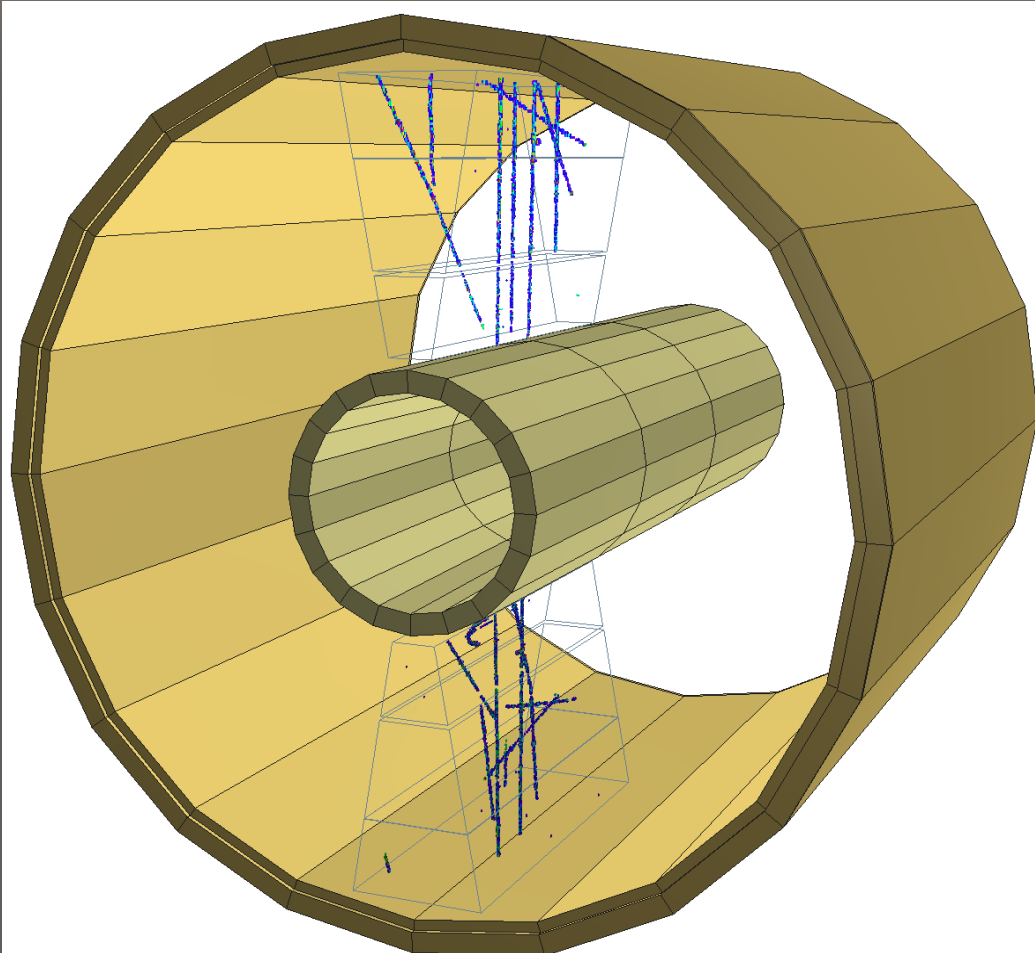
- accuracy in gas composition (Goofie, GC)



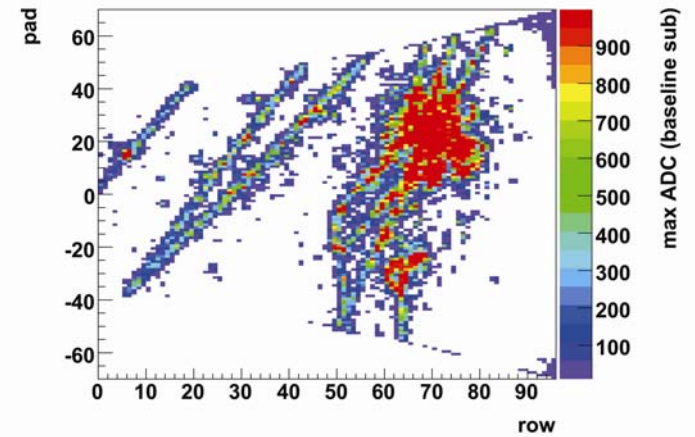




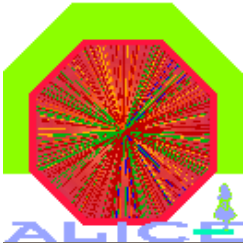
# First tracks



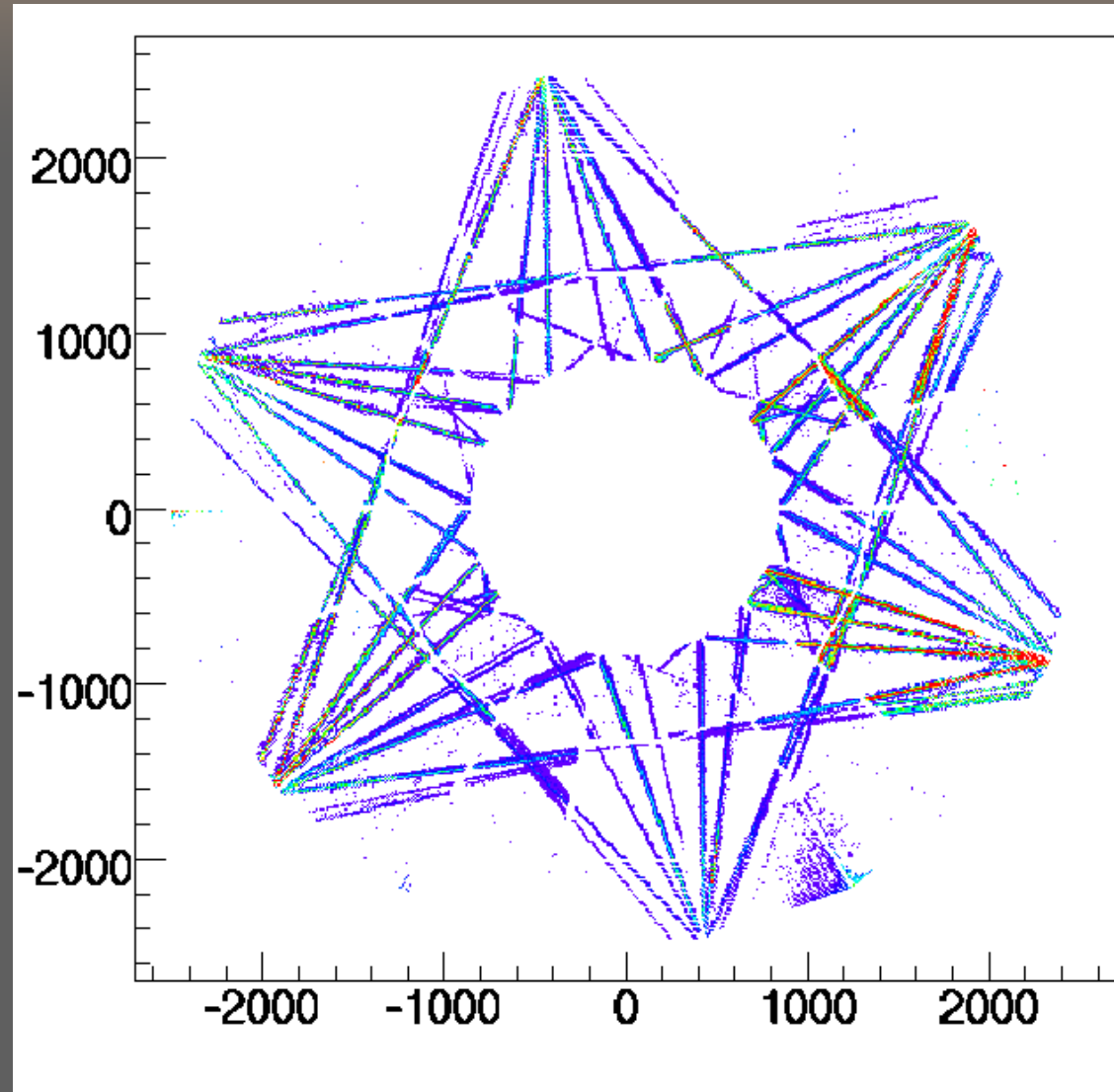
OROC Sector 6 Side C Run : 0999.0999 EventID 944

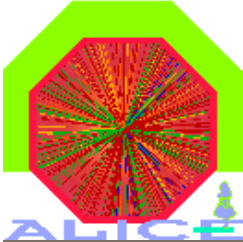


Max Gain Event

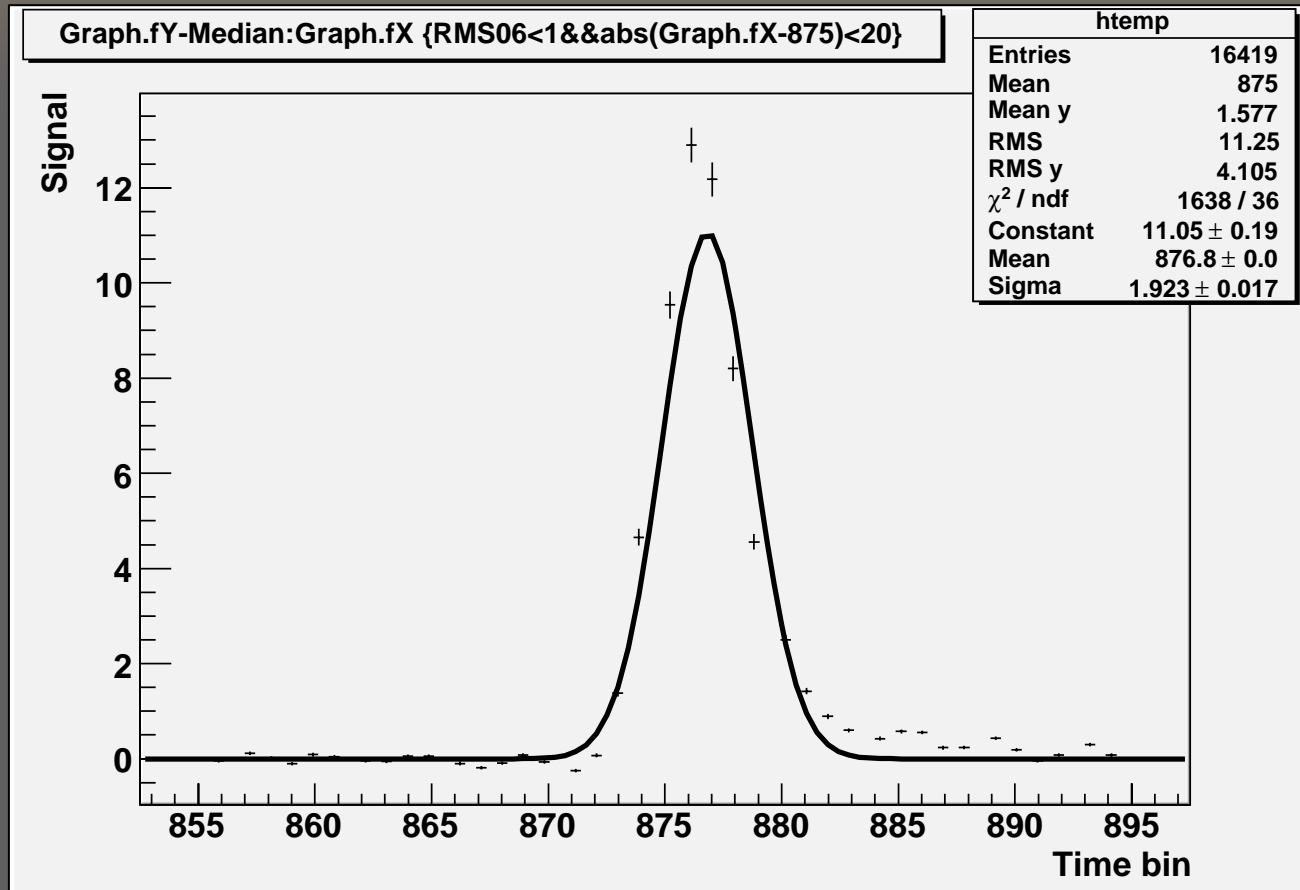


# Laser System

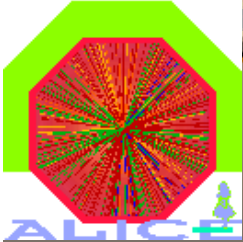




## Preliminary results for the drift velocity

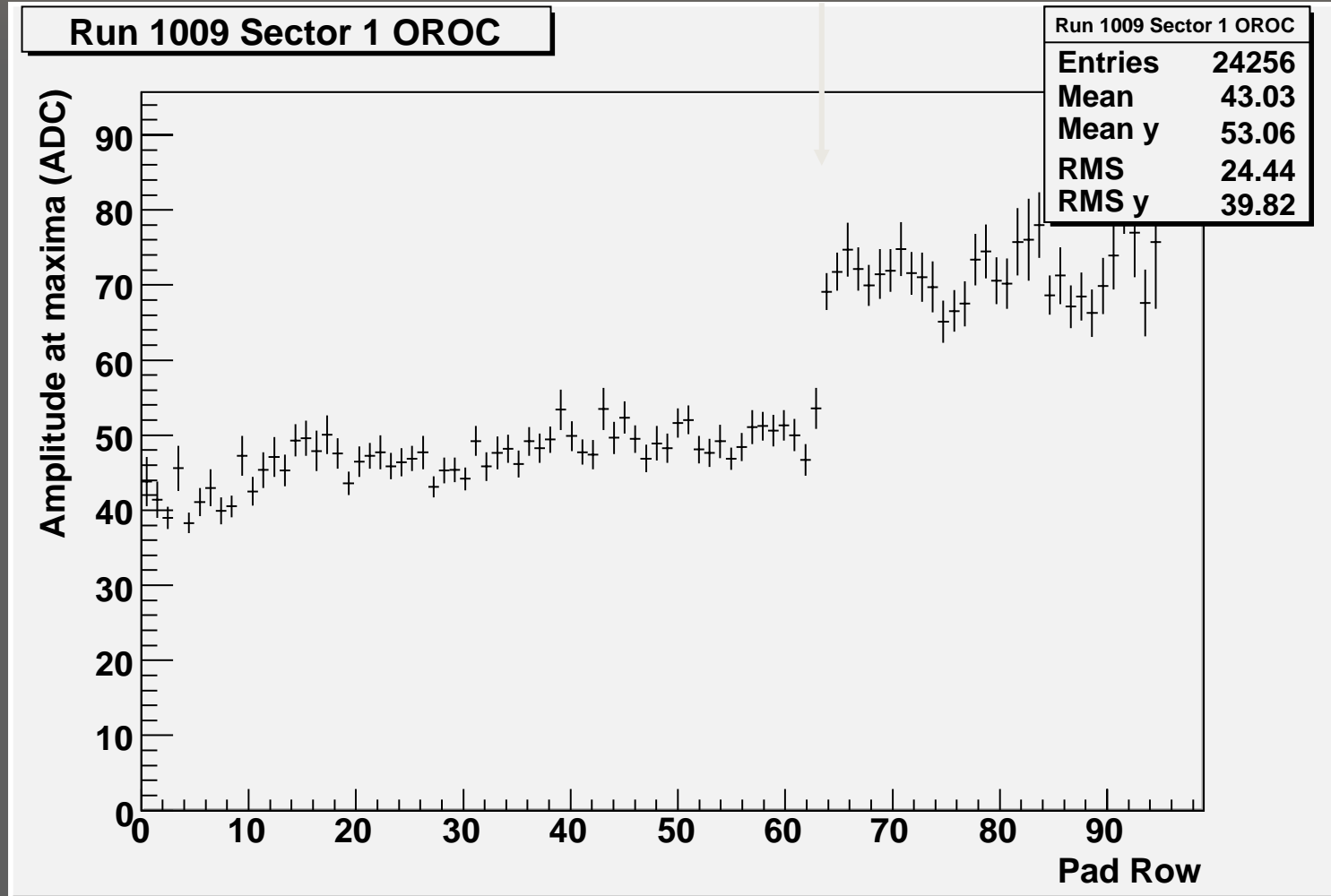


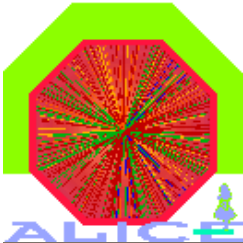
$V_{\text{drift}} \approx 2.85 \text{ cm}/\mu\text{s}$  (2.83 cm/ $\mu\text{s}$  in the simulation)



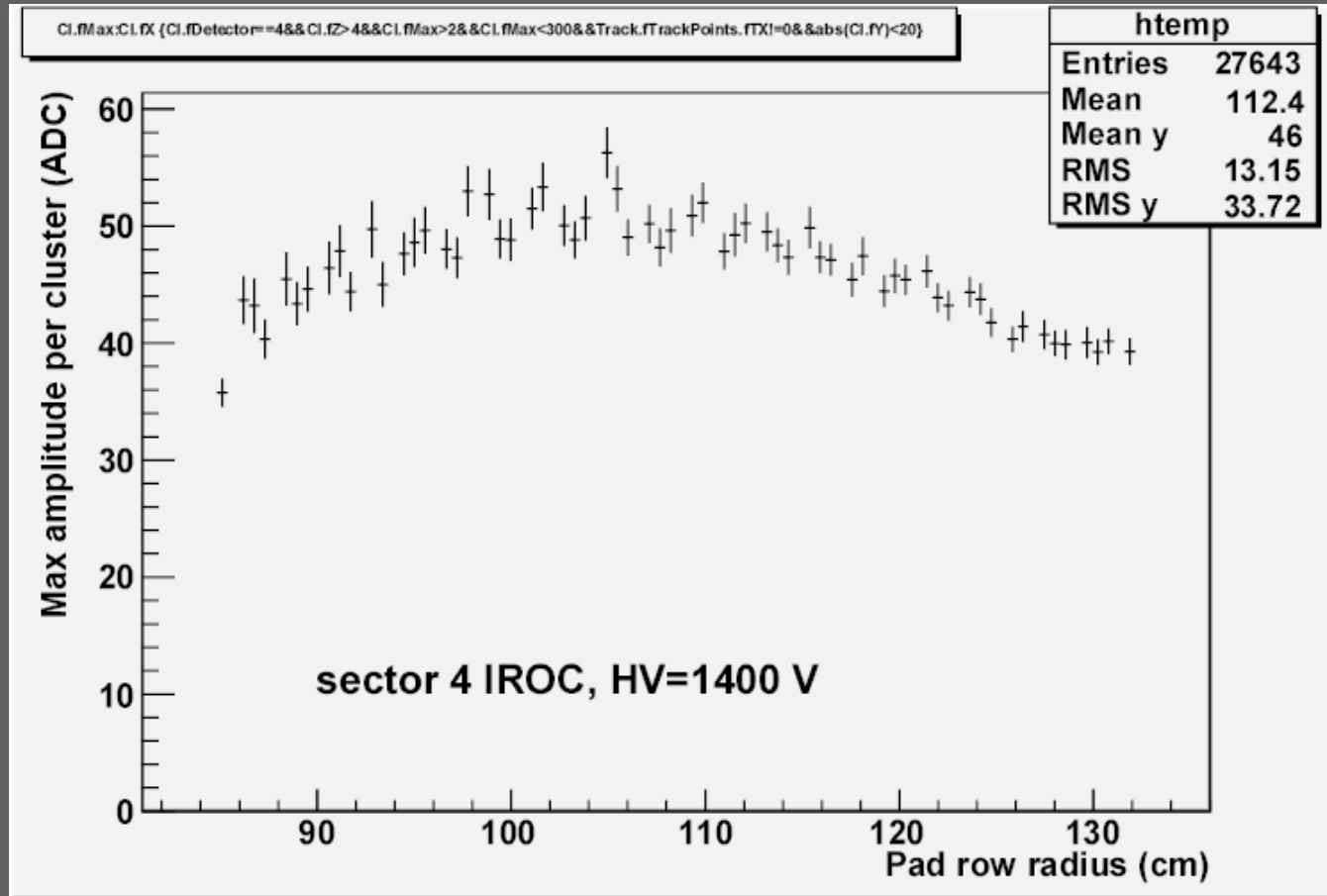
# Gain uniformity, OROC

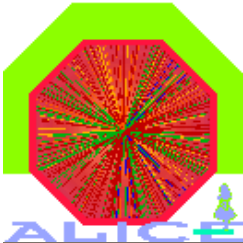
50% change of pad size



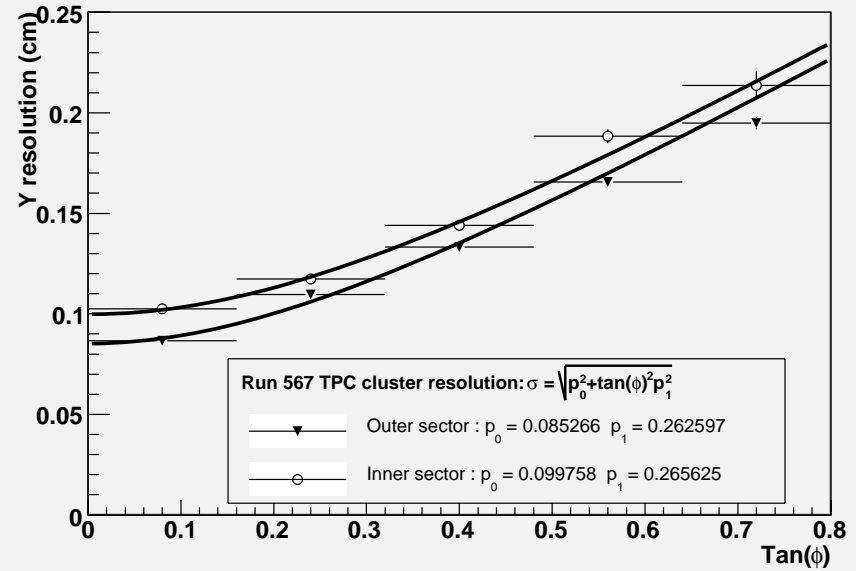
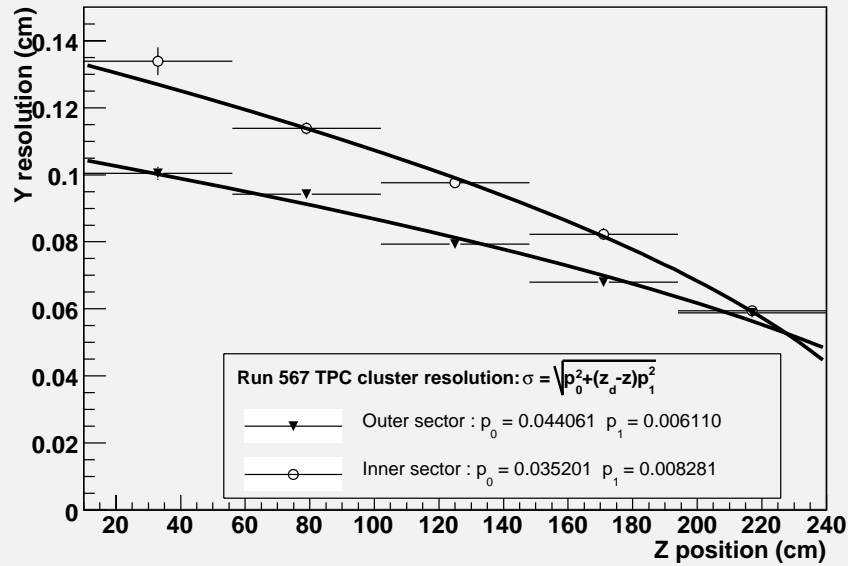


# Gain Uniformity, IROC

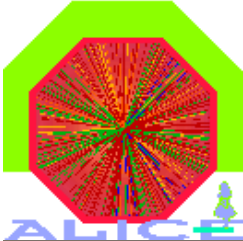




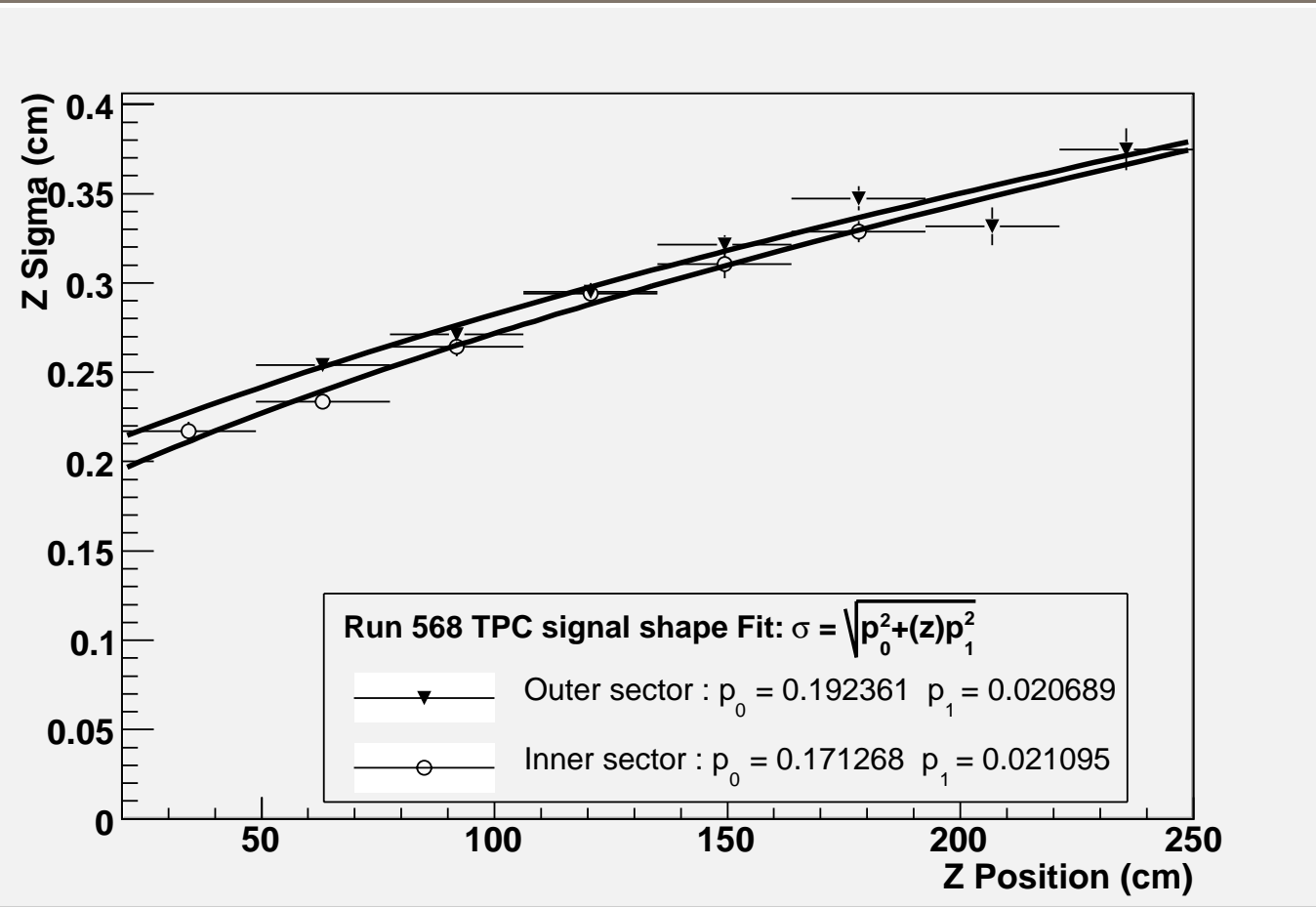
# Space point resolution



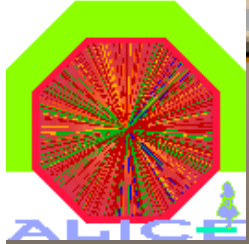
- space point resolution as function of z position (cut on inclination angle <0.05) and as function of inclination angle
- results very close to TDR values



## Sigma fit – diffusion coefficient



TDR value:  $210\mu\text{m} / \sqrt{\text{cm}}$



# Summary

- Systematic test of all 36x2 readout modules finished last week (cosmic and laser tracks)

Many features close to TDR specifications

- Field cage tested for nominal HV
- Gas system working,  $O_2 < 5\text{ppm}$
- Commissioning will continue with the long term tests of the few sectors till 20.11.06.

- **November 20** installation underground