

DT Chambers Construction at Madrid 2000-2006

M.C. Fouz March'06

Chambers built at CIEMAT 60 MB2 + 4 Spares 10 MB4/10 + 1 Spare

Chamber production at CIEMAT is ended

A long way till now

First Chamber early 2001

CMS Week (September 2000)

STATUS REPORT FROM CIEMAT

1. MB2 phi superlayer 1

We recabled the HV side (Marco di Giorgi was at CIEMAT last week). Cable lengths are fixed, and labels are used to make easier the cabling operation. The whole procedure was checked and some more experience obtained.

HV tests were performed afterwards and the superlayer behaved properly.

FE part still pending: we received all needed stuff from Padova, and we are waiting for Matteo's proposal of how to proceed.

2. MB2 phi superlayer 2

Essentially finished: only missing thing is to glue the fifth aluminium plate which is ready.

3. MB2 theta superlayer

First layer of I beams glued. Luciano has been calibrating the wire position mesurements (CCD camera versus laser interferometer).

Brief Report from CIEMAT

 We are installing Front End electronics in our first MB2 Superlayer. Carlos Willmott will report on the experience we have got so far on this operation.

Muon Week November 2000

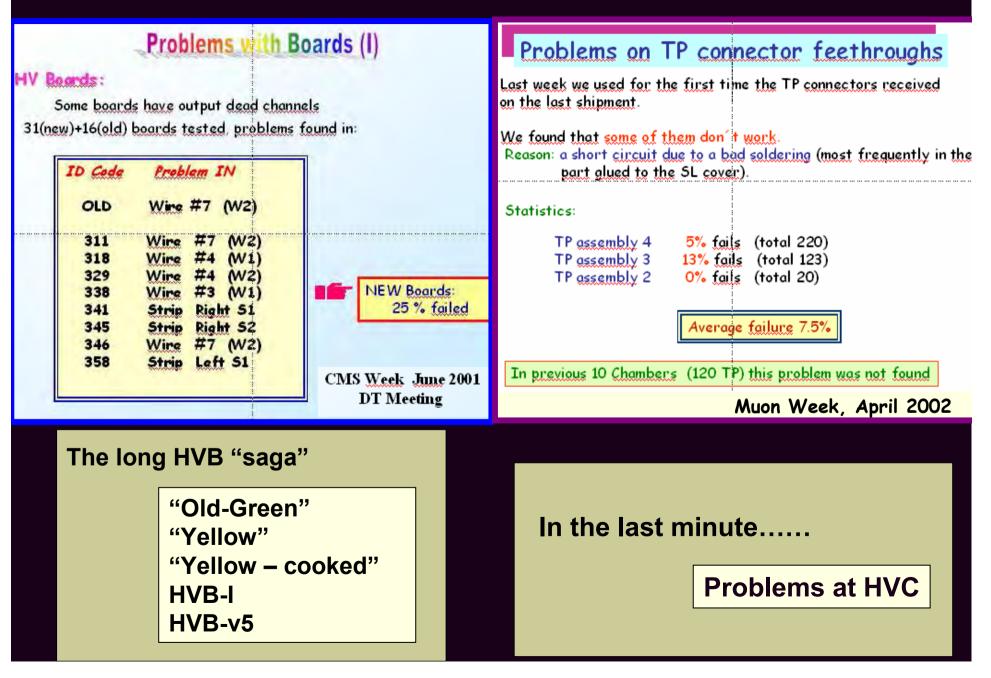
- Not much progress in the assembly of theta SL and other ongoing activities at CIEMAT (Luciano has not been working during the last 4 weeks).
- Our main priority is to finish the assembly and tests of the first MB2 chamber before the end of the year.



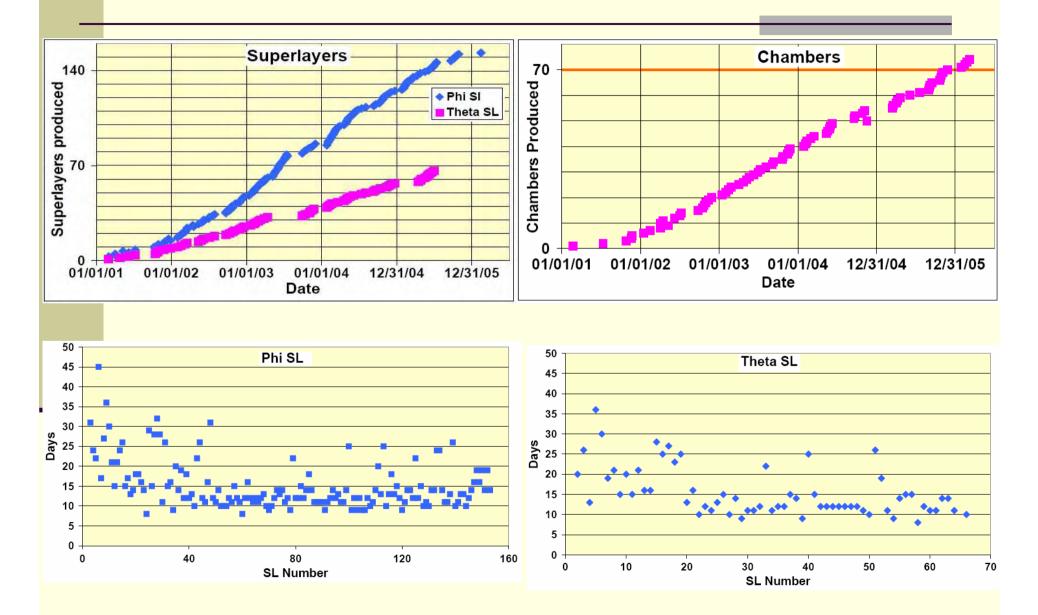


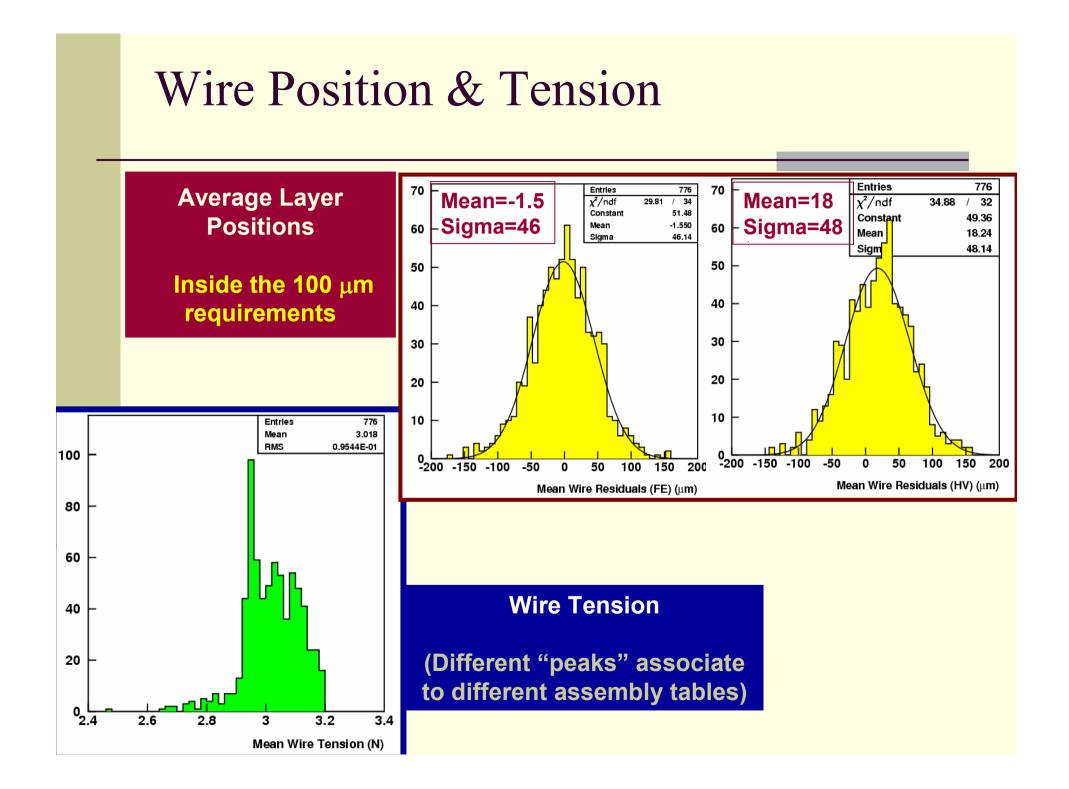


Several minor & major "crisis"

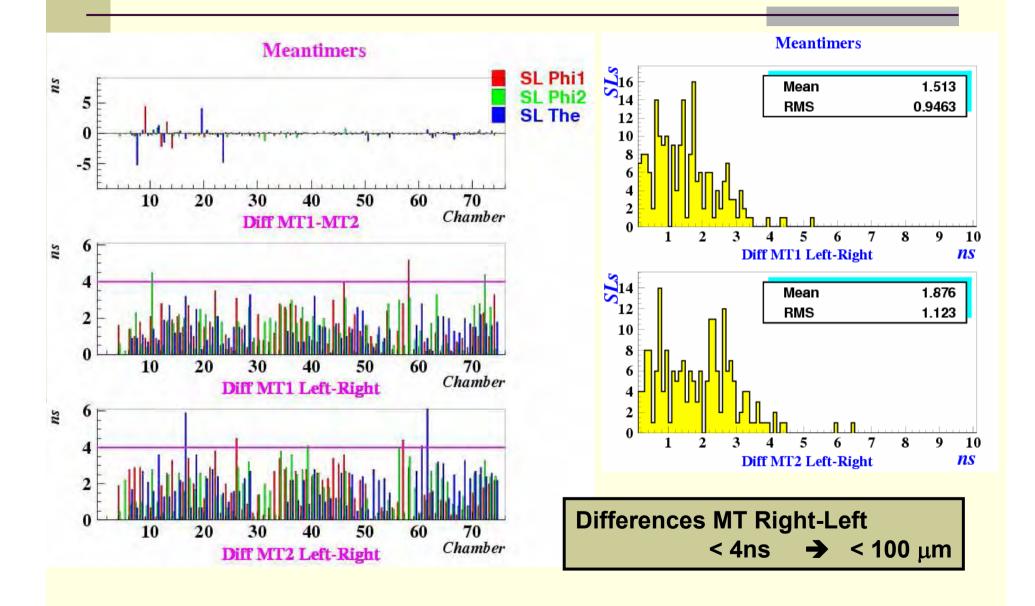


Production Rate

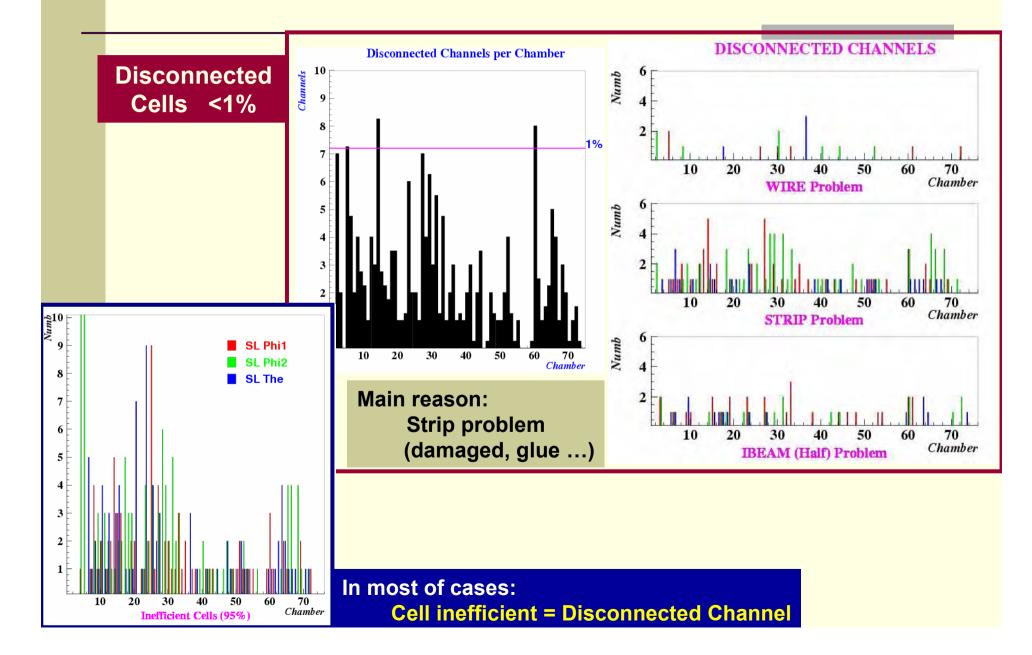


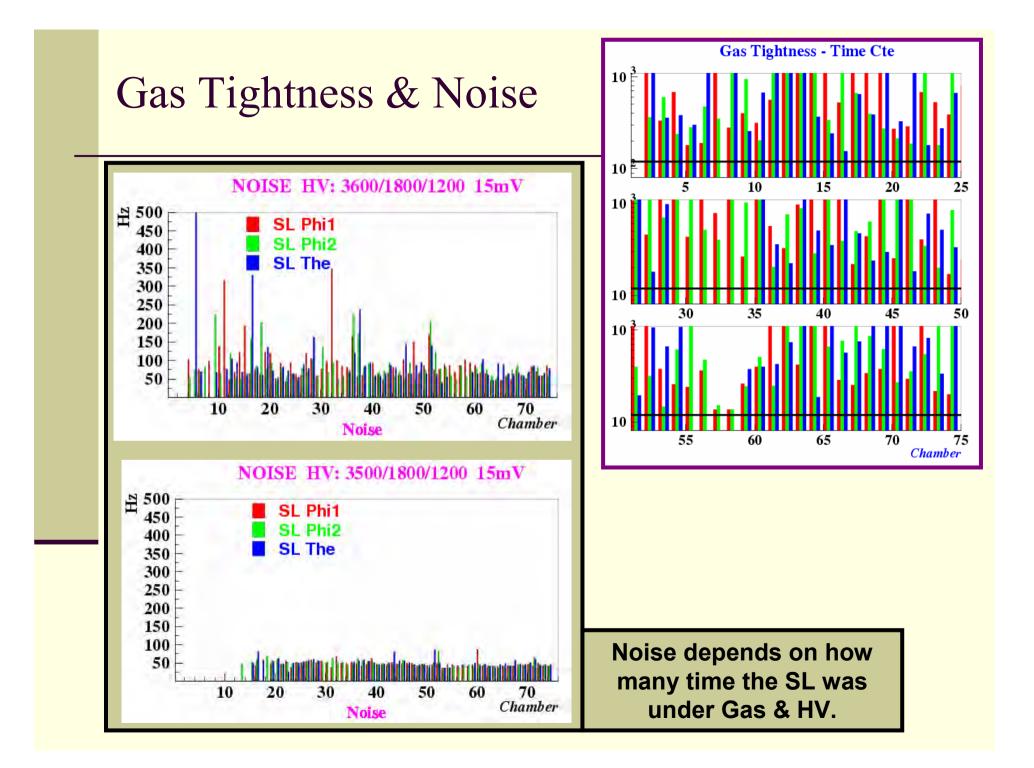


Meantimers



Disconnected & Inefficient Cells





The production on numbers

60+4 MB2 & 10+1 MB4 Chambers (Total=75)

→ More than 50000 DT Cells

More than

- → 400 km of glue cordon
- → 25500 daisy chains connected
- → 50000 connections wire HVCBoards
- → 50000 connections wire HVBoards
- → 3000 bridge connections between HVBoards
- 14000 connections between HVBoards & HVconnectors
- ➔ 15000 screws
- → 6000 Data Runs (TP, Noise & Cosmic) taken and analyzed

The numbers does not include the multiple "extra" interventions and the HVB replacement

Chambers at CERN

Chambers at CERN: 32 MB2+ & 27 MB2- & 10 MB4 (69 Chambers)

Next Shipment:

End of March: 5 MB2-

2 SLs for the spare MB4/10 stay at Madrid

Chambers with OLD-HV Boards: 3 MB2+ & 2 MB2-2 MB2+ & 2 MB2- Spare Chambers

Being replaced from this week

Marcos Cerrada Luciano Romero Mary-Cruz Fouz Jesús Salicio Jesús Puerta Carlos Villanueva

Manolo Daniel

José Miguel Ahijado José Alarcón Francisco García David Francia Juan José Martínez Antonio Pardillo J.Carles Puras José Lus Ramirez an Lomero

icanor Colino egoña de la Cruz ablo Carcía Abla osé M. Hernandez

Isabel Josa Carlos Willmott María Aldaya José Caballero Physicist Physicist Physicist PhD Student PhD Student

Engineer

Technician Technician Technician Draftsman Technician Technician Technician Technician

Physicist Physicist Physicist Physicist Physicist Physicist

Physicist PhD Student PhD Student

The people from the CIEMAT Workshops

The Electronic Division at CIEMAT

TO BE DONE

THE PARTY !!!