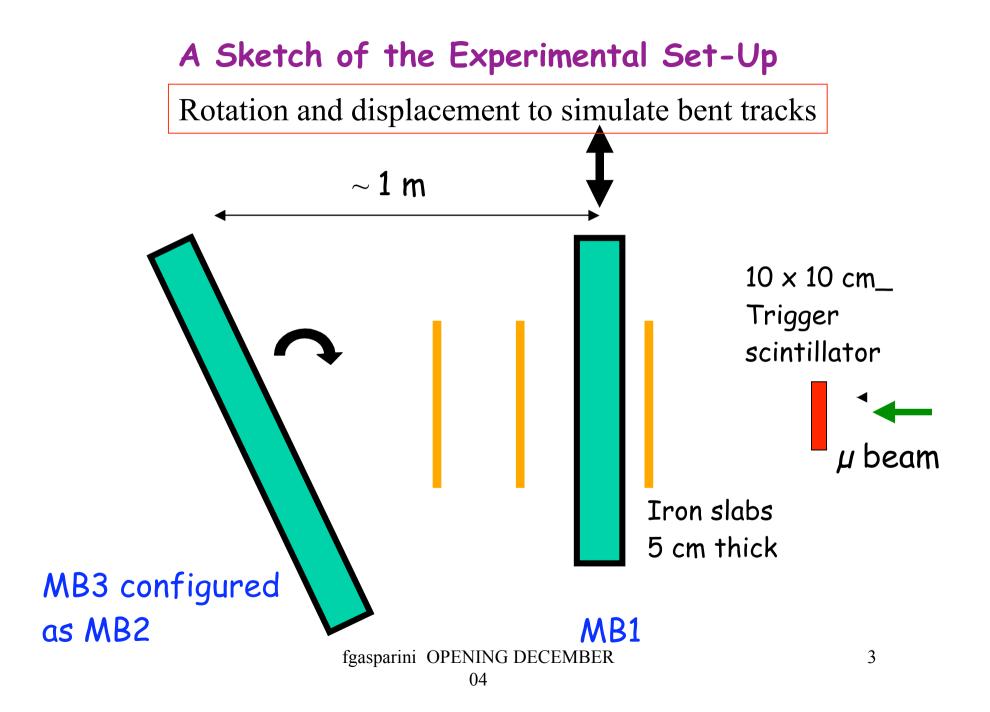
CMS Week OPENING session Dec. 2004

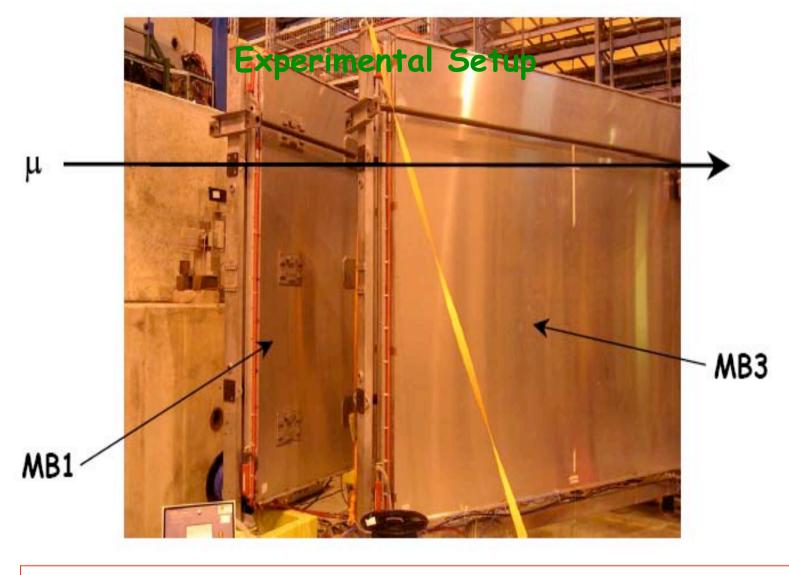
DT test beam Detector-PRS meeting in Torino Status :sites,HVB,Minicrates MU Barrel Installation Alignment

1

TEST BEAM OCTOBER 04

- Two chambers with fron-end electronics for read-out and Local DT Trigger + Phi Track-Finder + Wedge Sorter were exposed to a 40 MHz bunched muon beam at CERN at the beginning of October.
- The chamber configuration reproduced the trigger conditions of a MB1 and a "fake" MB2 at wheel 0 in CMS (see picture next stide of a december 2





FIRST RESULTS ARE GOOD :ANLYSIS GOING ON

Well attended meeting MU Detector –PRS For PTDR and Detector Commissioning in Torino on 16 and 17 of November Agenda and presentations can be found @

http://newton.ph.unito.it/muon-prs/

DT STATUS

Sites :

Aa,LNL,CIEMAT going on , some concern for HVB and small parts availability.

Torino assembled 11 SL ,the second table is ready.

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Planned 5 ch (10 SL) by end 04
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No chamber assembled yet because of missing details of the assembly table, ready for Christmas ?

First MB4 chambers are needed at CERN for training and Alignment in the second half of Jan.

HVB

done200 back from IHEP end Oct.,5 MB1 Wheel YB+1Expect.350 expected by ~ Dec. first5 MB3 wheel YB+1

400 flying to CERN : thanks IHEP!

1200 mid . Jan 1200 Feb. 1200 March and so on 11000 full lot :end July 04 complete YB+1 450 YB0, 300 MB4 YB+2 450 YB0

7

Time for chamber ready : 5 weeks after HVB replacement

delay of one month: Problems and delay of suppliers,found a third supplier for PCBs, problems with shipping to IHEP YB+1 installation from March to April

MINICRATES

CIEMAT

42 read out MC available, in production 12/month

COMPLETE MINICRATES 19 by Dec 20 35 by first week of February to equip YB+2 (10 from Bologna, started in Nov., and 25 from Legnaro)

At current rate of 12/month (expected 14~16) in Feb .: 12~14 Minicrates behind schedule ~ 1 month

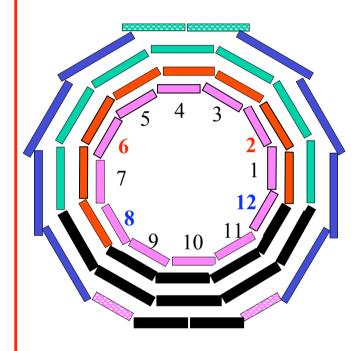
Urgent to find way to speed up production (this week at the TB)

FIRST BMU Installation July 04 (YB+2) 11 chambers

- MB1 installation postponed until supports are mounted and HO related work is completed (September)
- •==> 11 Chambers installed (the black)

4 MB2 (9 to 12),5 MB3 (8 to 12) 2MB4 (10)

• The most problematic sectors for equipping installed chambers with MiniCrates are Sectors 2, 6 and 8, 12.



SECOND BMU Installation OCT 04 10 CHAMBERS

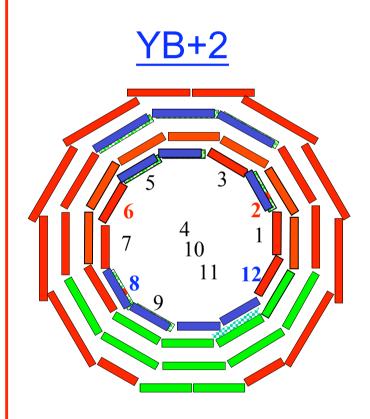
From October 20th to 29th we installed 7 MB1 in sectors: 8, 9, 10, 11, 5, 2, 4

And 3 MB3 in sectors: 5,4 and 3

For a total of 10 Chambers 7MB1 and 3MB3

2 MB1 in sectors 8 and 2 are equipped with minicrates

Installation of MB2 in Sector 8 was postponed due to a gas leak in one RPC



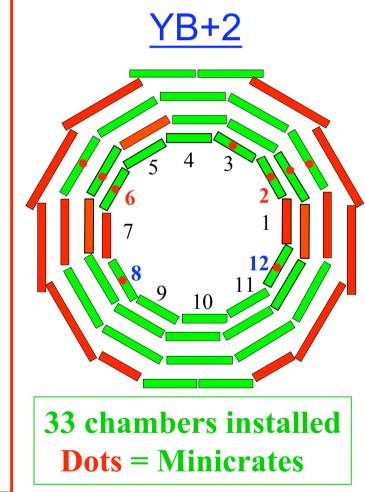
THIRD BMU Installation NOV.04 12 CHAMBERS

From November 25th to December 3rd we have installed 12 chambers: 3MB1, 5MB2, 2MB3, 2MB4/4

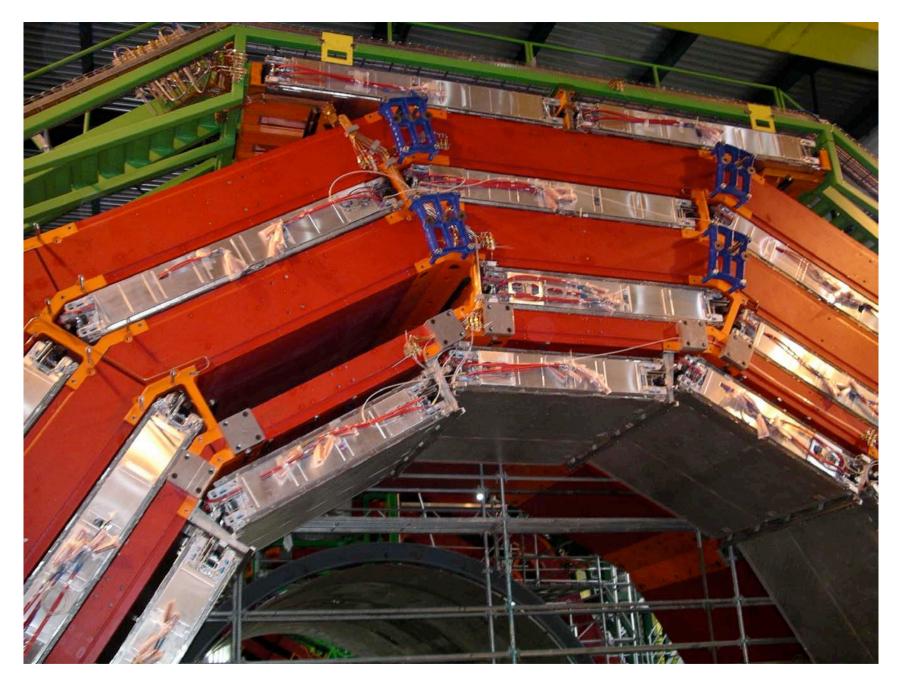
One of the RPCs for MB2 Sector 5 has to be rebuilt. This chamber will be installed next year (February March)

5MB1, 2MB2 and 2MB3 were installed with Minicrates (indicated with red dots)

The MC were checked with the boundary scan program at SX5 (M.Zanetti, R. Travaglini, J.P.Pelayo)







INSTALLATION PLAN UP TO SEPTEMBER 05

YB+2	Complete	36 + 6 MB4 To
YB+1	Complete	36 + 6 MB4 To
YB0	Half positive	18 + 3 MB4 To
YB-1	2 sect.	9
YB-2	2 sect.	9

123 chamber ~ half of the lot (installed 32)

15 of them from Torino

123 Minicrates

90 chambers = 45 working days at 2 chambers/day

SUMMARY:

Lot of progress has been made:

JUNE :no MB4 from Torino, no HVB, no chamber installed, no minicrate

Installation is going on smoothly,with improved tools (motors) 9 chambers have been installed with Minicrates and thanks to IHEP Beijing colleagues the mass production of the NEW HVB is now a reality.

The long awaited production of chambers in Torino and of Minicrates started.

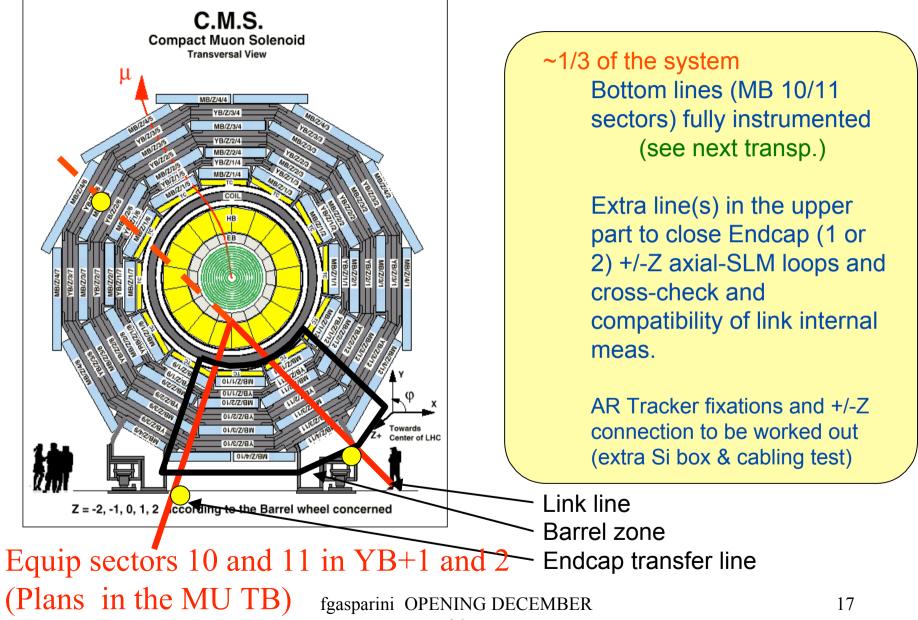
15

But we are still not out of the emergency, no buffer for the three critical items has been created yet, and the schedule is still uncertain and highly exposed to any type of accident

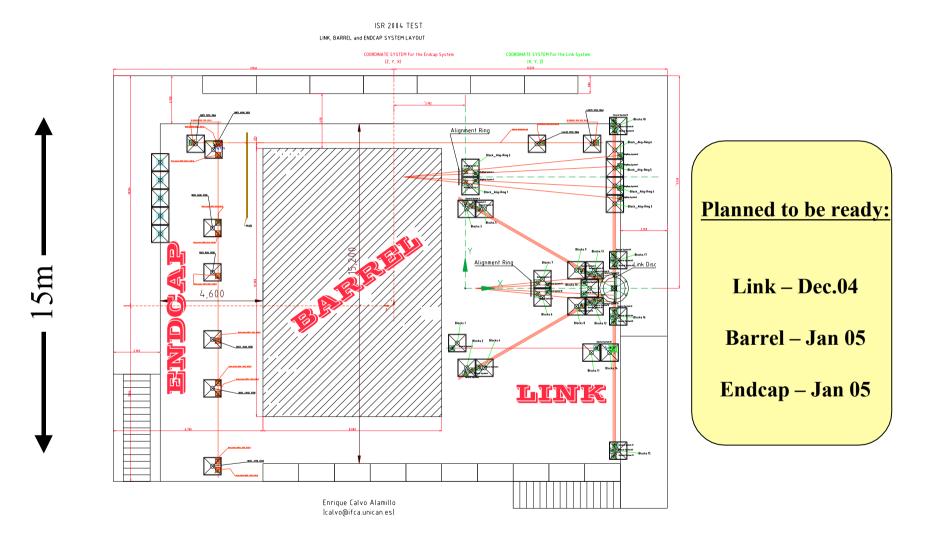
Cabling of the wheels is another concern : six months of work At the same time as chamber installation.....

Cables pass in front of the Mu stations and can be put down only after all the DT+RPC packages are inserted in the iron and the Minicrates in place.

ALIGNMENT: Magnet Test Configuration

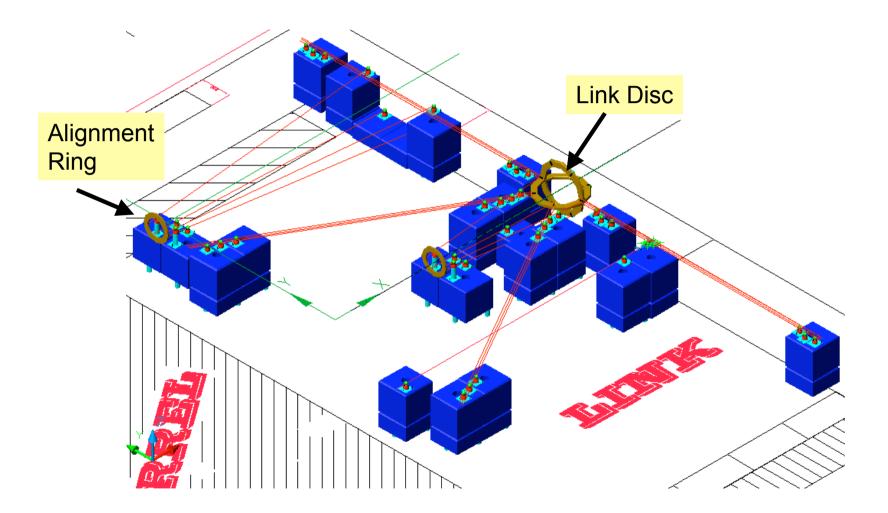


MT setup for MAB and LINK calibration: ISR zone



Link calibration zone

Alignment rings come from Tracker. Status: delivery in February



Barrel calibration zone

MABs are all delivered, assembly and cabling going on (CERN/Debrecen) Calibration: same procedures as for DT chambers (successful)

