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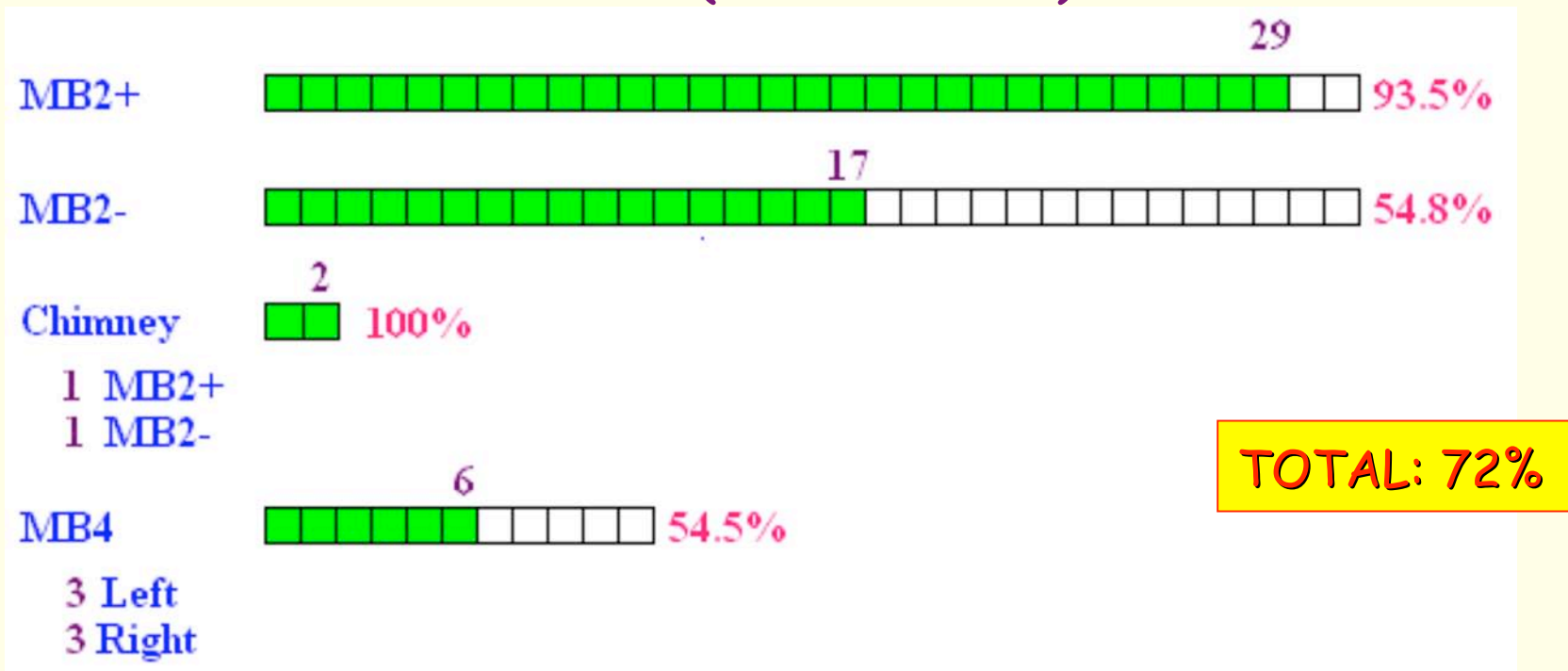
# CIEMAT Status Report

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CMS Week Dec'04

# Chamber Status

⇒ Finished Chambers (all at CERN)



⇒ SL's mechanically finished:

equivalent to 61 chambers

→ 81%

Total numbers include spares

# Chamber production at 2004

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- ⇒ SL's assembled for 17 chambers
- ⇒ 13 chambers finished

Mechanical assembly slowed down

Chamber testing stopped since October  
(No HVB's available)

# QC Data of installed chambers

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- In order to check the **status of chambers** which are **ready to be installed** in the yoke, I have analyzed the **last cosmic and test pulse run data** taken at the ISR, using similar procedures to the ones used in CIEMAT.

The run numbers were taken from the table of runs available on the ISR web page.

- The summary of the results has been included on the QC web page at CIEMAT with the same structure than for the tests done at Madrid.

**Warning:** The final values for the gas tightness were not included.

Are these values available? Where they are?



# ISR TESTS SUMMARY

**Ciemat**

Centro de Investigaciones  
Energéticas, Medioambientales  
y Tecnológicas

## MB2+

- [Chamber #2](#) (PHI1 Serial: 5 THE Serial: 2 PHI2 Serial: 3)
- [Chamber #3](#) (PHI1 Serial: 8 THE Serial: 5 PHI2 Serial: 7)
- [Chamber #4](#) (PHI1 Serial: 6 THE Serial: 3 PHI2 Serial: 4)
- [Chamber #5](#) (PHI1 Serial: 9 THE Serial: 6 PHI2 Serial: 10)
- [Chamber #6](#) (PHI1 Serial: 12 THE Serial: 7 PHI2 Serial: 11)
- [Chamber #7](#) (PHI1 Serial: 13 THE Serial: 8 PHI2 Serial: 14)
- [Chamber #8](#) (PHI1 Serial: 16 THE Serial: 9 PHI2 Serial: 15)
- [Chamber #17](#) MB 2 / 2 / 11  
(PHI1 Serial: 34 THE Serial: 18 PHI2 Serial: 33)
- [Chamber #18](#)

# Chamber 17 MB 2 / 2 / 11

- TRAVELLER [file](#)
- LAST COSMIC RUN AT ISR

## Meantimers and Efficiencies

(SL1 = The; SL2 = Phi1; SL3 = Phi2)

- FILES

[MT and Efficiency](#)

- PLOTS

[Global MT](#)

[Meantimers vs cell](#)

[Average MT cells](#)

[Efficiency vs cell](#)

[Average efficiency per Layer](#)

# Summary of CIEMAT chambers for Wheel+2

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10 MB2 + 2MB4 Chambers (7982 readout channels)

Disconnected channels:

	Madrid	ISR	Total	
Dead cells:	18	7	25	0.31%
Half Ibeam:	9	0	9	0.06%

Bad Ibeam connections found on data: 3

Inefficient cells:

3 cells: 95% - 97%

1 cell: Right:99%, Left: 75%

(Not understood, Ibeams properly connected)

# Production Plans for 2005

☞ We will run out of components early next year

More criticals ones:

➤ HV Side: Daisy Chains

(we have enough for 3-4 more chambers)

➤ FE Side: Components needed to equip the profiles:

Signal connectors, test pulse connectors....

(enough for ~6 more chambers)

(More details on M. Cerrada's talk)

☞ We do not want to test more chambers until we receive new HVB's

☞ HVB's replacement at CERN should be considered (not realistic plans can be done at the present time)

☞ Space in our hall is limited. We have now about 20 SL's finished and stored (not much space left already)

Conclusion: Our production plan is NOT yet defined.

It will depend on delivery dates for HVB's and other missing components

We may decide to stop completely the production for some time