- New chamber installation plan: first YB+2, then YB+1, and then YB0.
- The MC's needed to accomplish with that planning are:
 - 5 MB1 for YB+2 top in July.
 - 12 MC's of different types for YB+2 top in September.
 - 19 MC's for bottom YB+2 by the end of 2004.
- In total, 126 MC's before May 2005 to equip wheels YB+2, YB+1 and YB0.
- It has been proposed to set up two assembly sites in Italy to complete trigger part and install FE cables on the MC's: Legnaro, starting in May, and Bologna, that would be ready by September 04.
- The aim is to assemble 8 MC/month per site, that is, 16 MC/month. It is under study, but very unlikely, that Madrid could reach that production rate.
- Full MC's will be tested at those sites and additional infrastructure will be required. In particular 4 ROS-8 are now being fabricated.

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MC Mechanics

SMALL PIECES

- Most small parts are already produced, (except SB cover).
- All CCB spacers have already been modified.
- A possible modification on Phi covers is still pending. (M. Pegoraro).

MC BOXES

- Part of the MC boxes have been modified for new SB cover.
- 16 MB3 have been received from Italy and are waiting for SB cover modification. Remaining will be received already modified.
- All MB1 are in Madrid and are being modified.

- 1 MB1L, 1 MB1R and 1 MB4(9/11) empty boxes, and MB4 drill jigs, have been sent to ISR for mechanical installation testing.

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- At this moment at CIEMAT, we have the following MC's at

different stages of assembly: - 4 MB1R

- 7 MB1L

- 10 MB2L

- 4 MB3L

- 3 MB4 (9/11)L

ROB CLOCK CABLE

- At some point already assembled MC's had to be disassembled due to a problem related with the clock cable length that had to be modified:
 - L1A, Event reset and Bunch reset signals do not come out of CCB with the same phase with respect to clock.
 - Each ROB would require a particular clock cable length to synchronize all these signals, in a narrow time window.
 - Still pending to measure autotrigger L1A, to insure that it has the proper phase.

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TRB cables

- We have contracted the TRB cables production (around 3000 cables) with an industry in Madrid. It includes a 120 cables pre-series.
- The production of the TRB cables pre-series has been stopped last week for a bug detected in the cable layout.
- This error has been corrected and the first batch is going to be produced now.
- MC's shipment will be delayed to include this cables.

First MC batch

- 10 MC's with Read-Out tested are pending to be sent to Padova:

- 5 MB1L

- 3 MB2L

- 2 MB3L

- These MC's will have Read Out Boards and RO link boards. CCB/SB, CCB link boards and TRB's will be assembled in Padova.
- Production will continue to have another 10 ready in May and improving to reach 12 MC per month.

READ OUT STATUS

DDU PROTOTYPE

- A 2-channel DDU prototype has been tested last week at CIEMAT (Giulio Dellacasa).
- This prototype has:
 - two copper inputs.
 - two input FIFO's of 8Kwords of 16 bits.
 - One output FIFO with 2Kwords of 32 bits.
 - VME access for the output FIFO, and also S-link, that has not yet been tested.
- Both channels have been tested simultaneously with satisfactory results using the copper link with two ROS-8.
- Everything worked properly and this DDU prototype with the ROS-8 could operate in the test beam if a proper synchronous trigger and clocks (LVDS) are provided.
- One DDU board is staying in Madrid for further tests.

C. Willmott. CIEMAT.