



# MiniCrates Production Summary

- Production Statistics
- Spares Status.
- Acknowledgments.

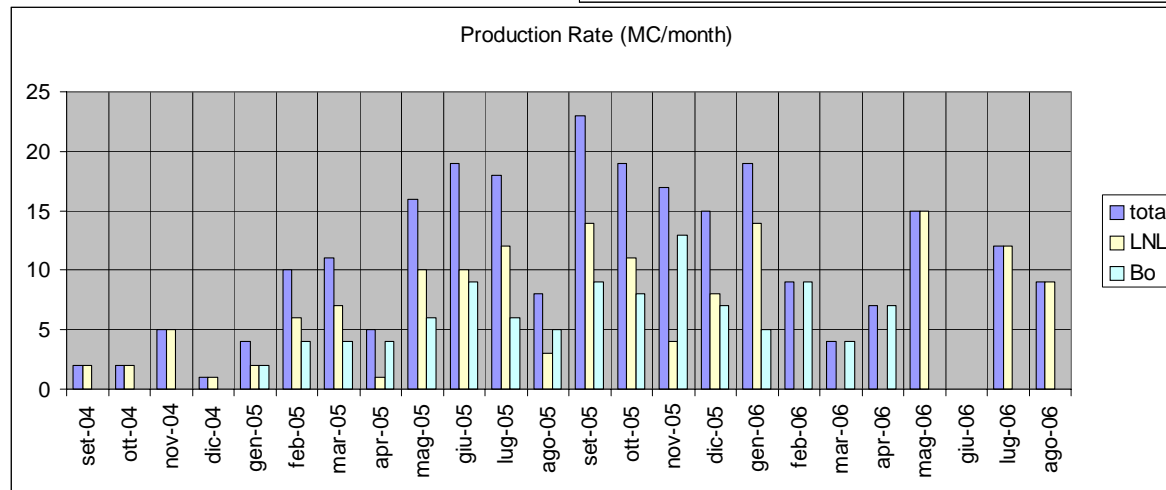
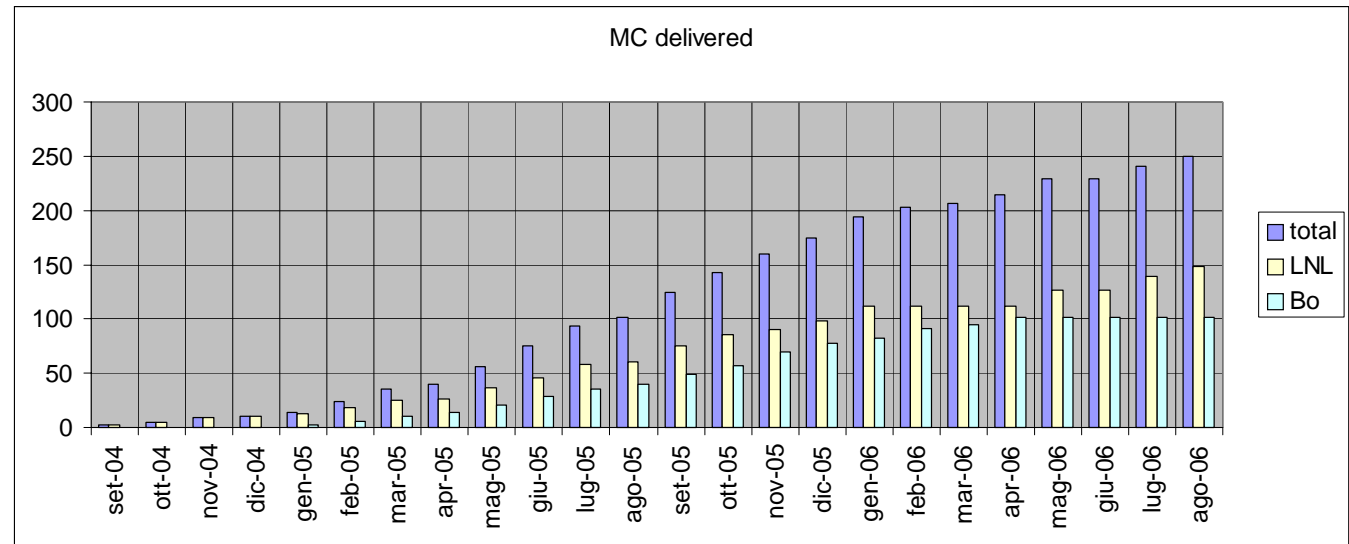


# Production Rate



**250 MC delivered**

- 148 by Legnaro
- 102 by Bologna



## Average Production:

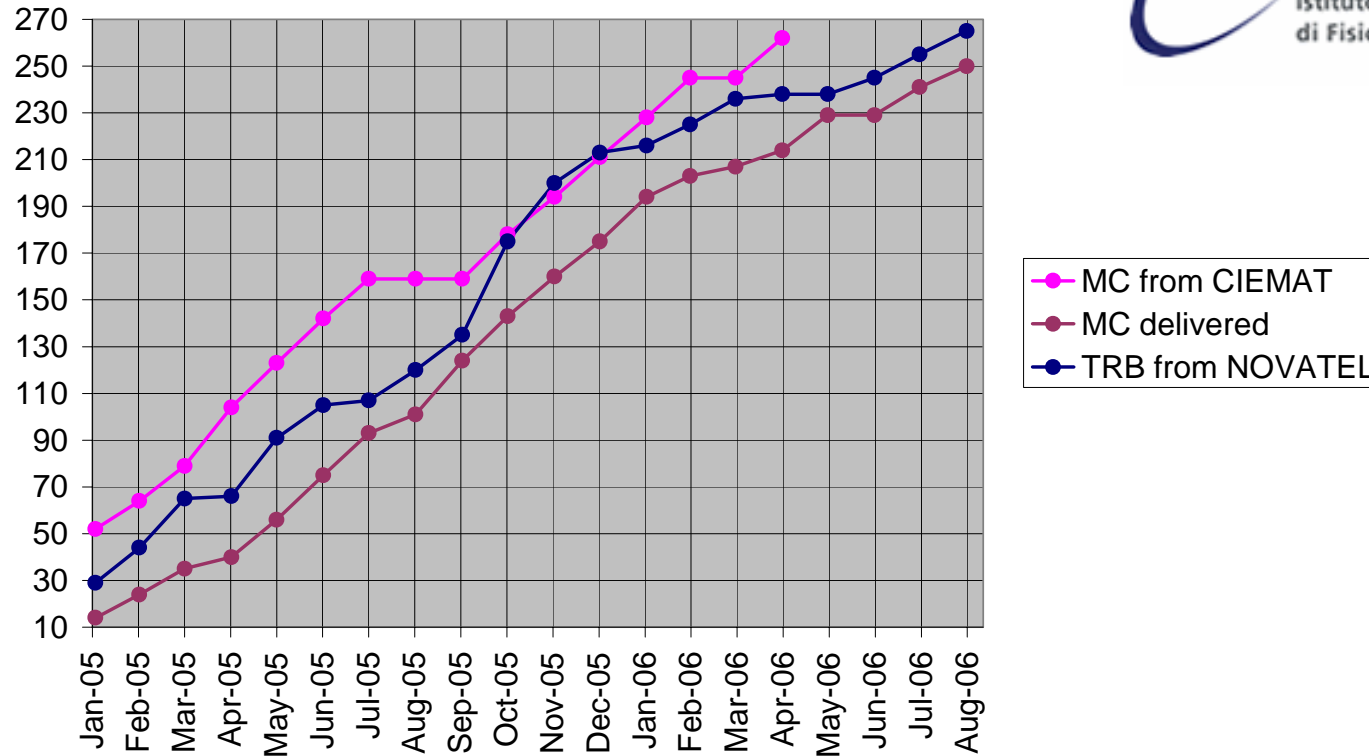
- ~6 MC/month @ both sites

## Peak Production:

- ~14 MC/month @ Legnaro
- ~12 MC/month @ Bologna
- ~20 MC/month globally



# Production Rate



- Up to April, production limited by learning time.
- In summer '05, limited by TRB shortage
- At the end of '05 MC production runs out of the "critical path"
- Production continue at lower speed, limited by availability of good TRB.



# Spares Status: Minicrates



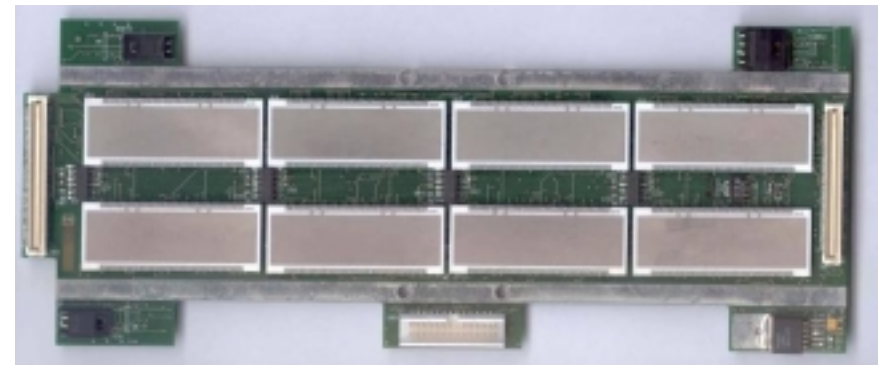
	MC type	MC type barcode	installed	Spares	Status
1	MB1-L /S-	102	29	1	at LNL, with ROB, SB, CCB, without TRB, not cabled
2	MB1-L Ch./S-	122	1		
3	MB1-R /S+	111	29	1	at Aachen, with ROB, SB, CCB (old firmawere revision), without TRB, not cabled (?)
4	MB1-R Ch./S+	131	1		
5	MB2-L /S+	201	29	1	at CIEMAT, completly assembled (?)
6	MB2-L Ch./S+	221	1		
7	MB2-R /S-	212	29	1	at LNL, with ROB, SB, CCB, without TRB, not cabled
8	MB2-R Ch./S-	232	1		
9	MB3-L /S0	300	58	2	at LNL on the test chambers; completly assembled
10	MB3-L Ch./S0	320	2		
11	MB4(s)-L /S+	401	8	0	spare missing (a 401 was installed instedf of a 411; the spare 401 was then installed)
12	MB4(s)-L /S-	402	8		
13	MB4(10)-L /S+	801	3		
14	MB4(10)-L /S-	802	3		
15	MB4(s)-R /S+	411	7	2	at LNL, with ROB, SB, CCB, without TRB, not cabled. one extra spare (a 401 was installed instedf of a 411; a 411 was then left as extra spare)
16	MB4(s)-R /S-	412	7		
17	MB4(10)-R /S+	811	2		
18	MB4(10)-R /S-	812	2		
19	MB4(4)-L /S0	500	4	1	at LNL, with ROB, SB, CCB, without TRB, not cabled
20	MB4(4)-R /S0	510	6	1	at LNL, with ROB, SB, CCB, without TRB, not cabled
21	MB4(8-12)-L /S+	601	2	1	at LNL, with ROB, SB, CCB, without TRB, not cabled
22	MB4(8-12)-L /S-	602	2		
23	MB4(8-12)-R /S+	611	3	1	at LNL, with ROB, SB, CCB, without TRB, not cabled
24	MB4(8-12)-R /S-	612	3		
25	MB4(9-11)-L /S0	700	5	1	at LNL, with ROB, SB, CCB, without TRB, not cabled
26	MB4(9-11)-R /S0	710	5	1	at LNL, with ROB, SB, CCB, without TRB, not cabled
			250	14	



# Spares Status: Components



	installed	spares		
		good	to be repaired	%
TRB $\Phi$	1080	10	30	4%
TRB $\Phi$ -32	60	6		10%
TRB $\Theta$	360	10	14	7%
CCB	250	16	4	8%
SB	250	16	1	7%
LINK	250	14	5	8%
BTIM	11500	56		0,5%
TSS	4400	250		6%
TRACO	1140	150		13%



% calculated over  
goods + bads

- Limited amount of spare TRBs.
- A critical component (BTIM) practically gone.
- No problems about cables and other mechanical spare parts



# Conclusions



- Minicrate production completed with some delay, but without consequence on Chamber installation plans.
- The spares availability could be a critical issue; components mortality should be carefully monitored.



# Acknowledgments



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- Cristina Fernandez Bedoya
- ...

## Legnaro Team:

- Franco Gonnella
- Lorenzo Castellani
- Alessandro Griggio
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