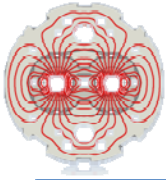


MMM and TEMB - 11 May, 2009

Status Report of Magnet Work Week 19 / 2009

Francesco Bertinelli - TE/MSC

On behalf of - and with several contributions from - surface and IC teams



Tunnel News 3-4 Week 19/2009

IC	BR	SP	V	E	Vc	C'	Y	X	Pq	M	K	N-I	HA
QBQI.19R3	Black		Black										
QQBI.19R3			Black										
QBBI.A20R3													
QBBI.B20R3													
QBQI.20R3			Black										
QQBI.20R3			Black										
QBBI.A21R3													
QBBI.B21R3			Red										
QBQI.21R3	Black							Black					
QQBI.21R3									Yellow				
QBBI.A22R3													
QBBI.B22R3			Yellow						Yellow				
QBQI.22R3	Black			Yellow									
QQBI.22R3													
QBBI.A23R3													
QBBI.B23R3													
QBQI.23R3								Black		Red		C	
QQBI.23R3													
QBBI.A24R3													
QBBI.B24R3													
QBQI.24R3								Black				C	
QQBI.24R3													
QBBI.A25R3													
QBBI.B25R3													
QBQI.25R3				Yellow				Black				C	
QQBI.25R3													
QBBI.A26R3													
QBBI.B26R3													
QBQI.26R3												C	
QQBI.26R3													
QBBI.A27R3													
QBBI.B27R3													

Cut bridges

Cut all bridges

Cut bridges

Cut all bridges

V1 cut

C

No M1 (BB-Flange)

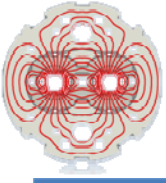
No M2 Double spacer

Change k

IC	BR	SP	V	E	Vc	C'	Y	X	Pq	M	K	N-I	HA
QBQI.27R3								Black		Red			
QQBI.27R3													
QBBI.A28R3				Yellow									
QBBI.B28R3										Yellow			
QBQI.28R3		Yellow				Black							
QQBI.28R3													
QBBI.A29R3													
QBBI.B29R3	Red							Yellow					
QBQI.29R3	Black							Black					
QQBI.29R3													
QBBI.A30R3													
QBBI.B30R3													
QBQI.30R3	Black			Yellow		Yellow							
QQBI.30R3	Yellow	Yellow		Black		Yellow							
QBBI.A31R3													
QBBI.B31R3								Black		Red			
QBQI.31R3	Yellow	Yellow						Black					
QQBI.31R3													
QBBI.A32R3													
QBBI.B32R3													
QBQI.32R3	Black			Black		Yellow							
QQBI.32R3		Yellow		Black		Yellow							
QBBI.A33R3													

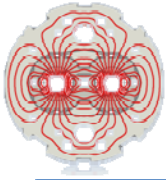
	Brazing	Spool	V	E	M	X	K
Week 13	8	6	7	8	0	0	
Week 14	9	7	10	11	3	0	
Week 15	5	4	2	1	0	0	
Week 16	5	1	7	7	0	0	
Week 17	5	14	6	8	3	15	
Week 18	4	6	2	0	11	7	
Week 19	4	4	7	0	7	19	16
Week 20	7 + 1 repair						

Courtesy A. Musso

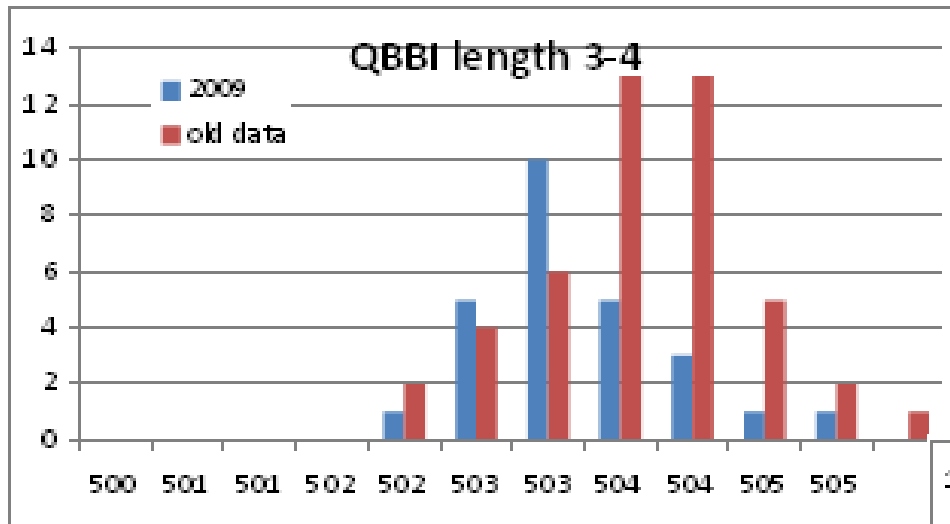


Tunnel News 3-4 D-area

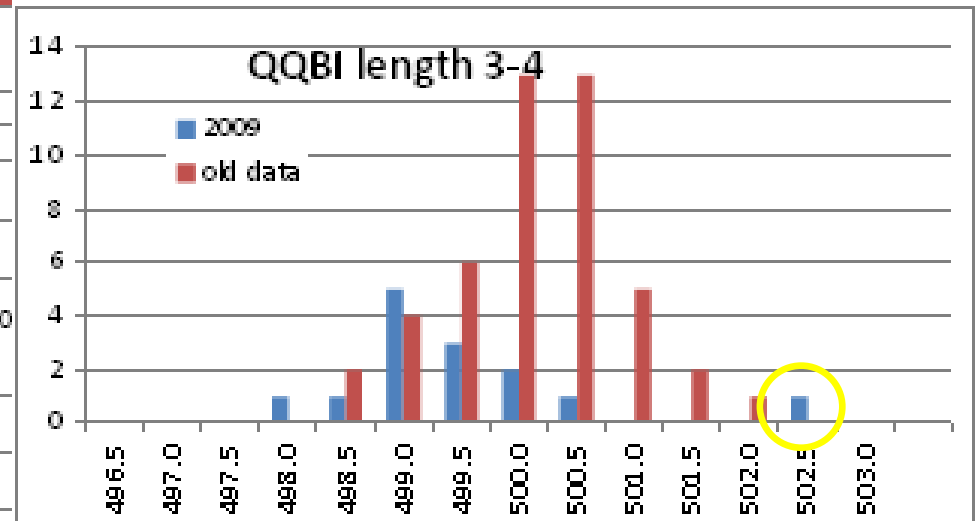
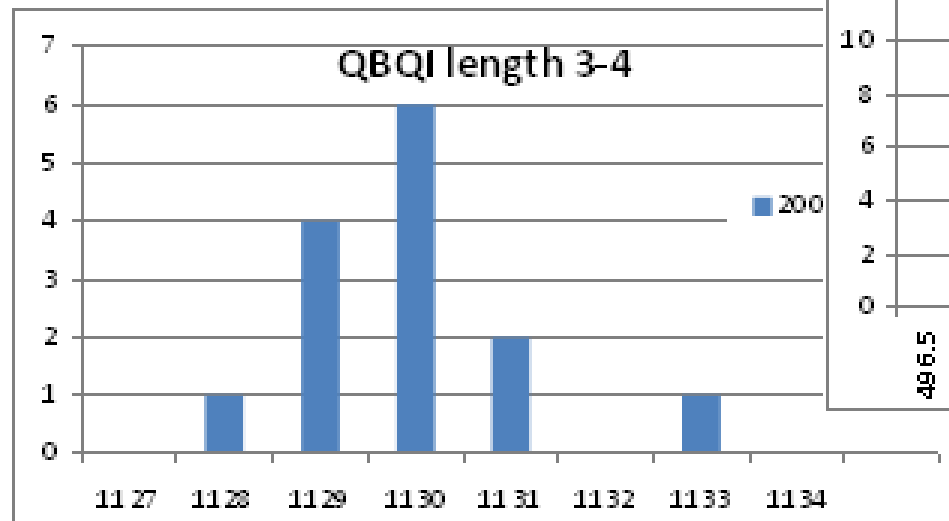
- Some milestones:
 - TIG welded all PIM V lines
 - Soldered all Y lines
 - Inserted all N-lines
 - First AIV1 ELQA tests done
 - First US welding of N-line connections
- NC with spools insulation following PAQ (MB2444 in C30R3): high leakage current for RCO and RCD correctors



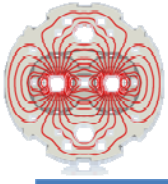
3-4 D-area ICIT Pre-inspection



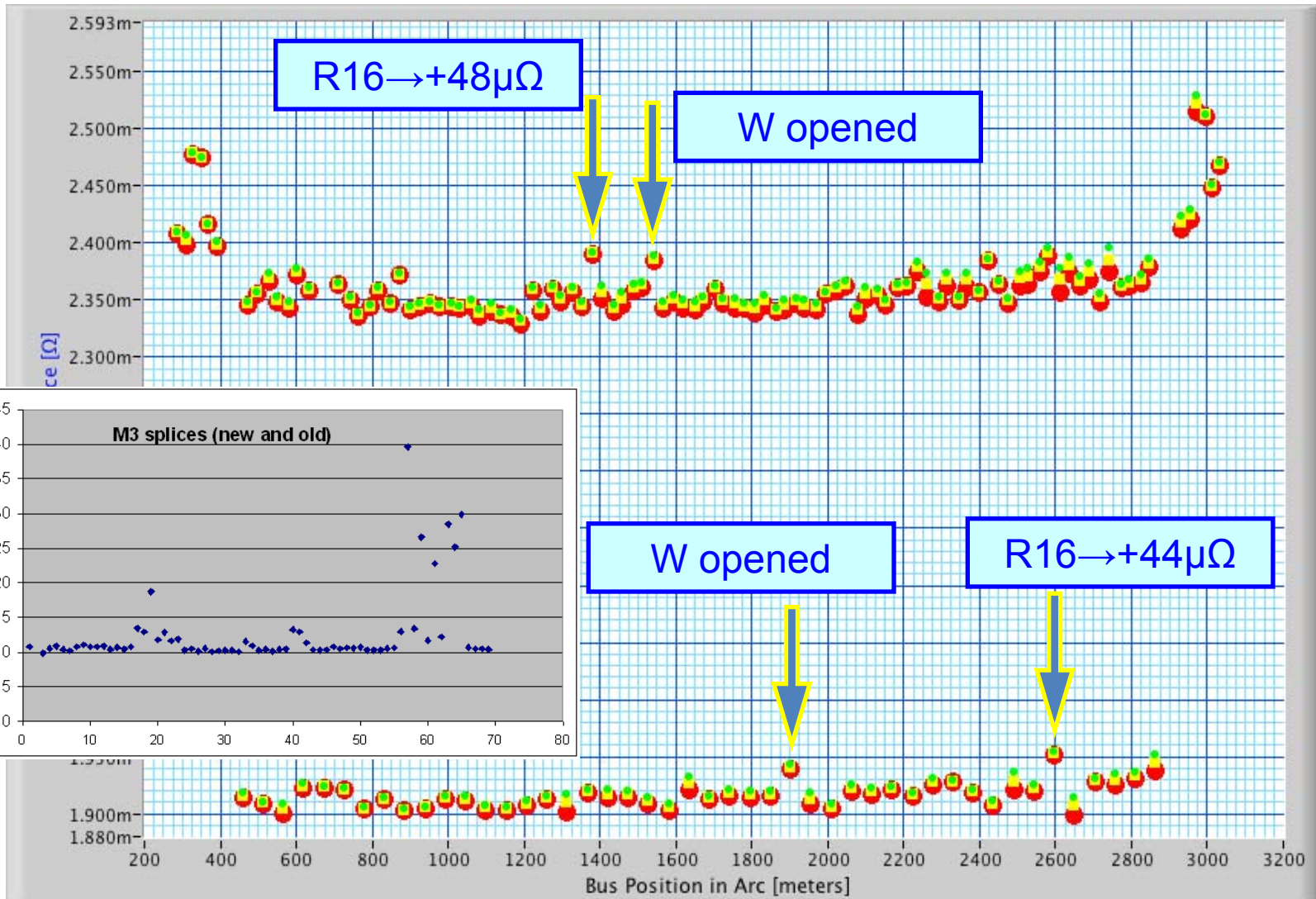
- 2 mm displacement MQs OK
- a few outliers (being investigated)



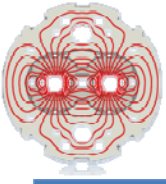
Courtesy P. Borowiec / ICIT



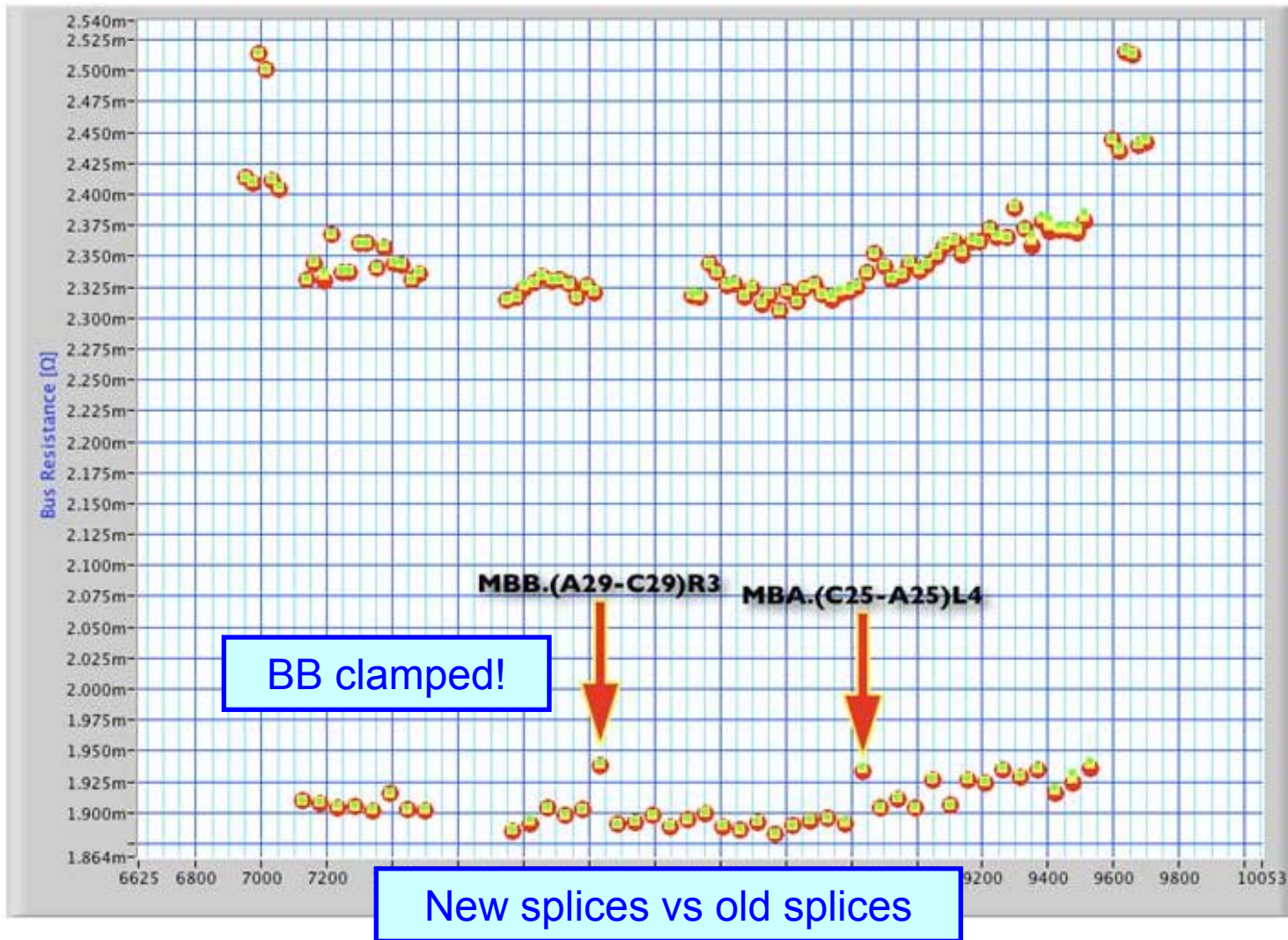
1-2 M3 splice resistance (copper)



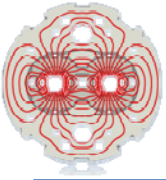
Courtesy R. Flora, C. Scheuerlein



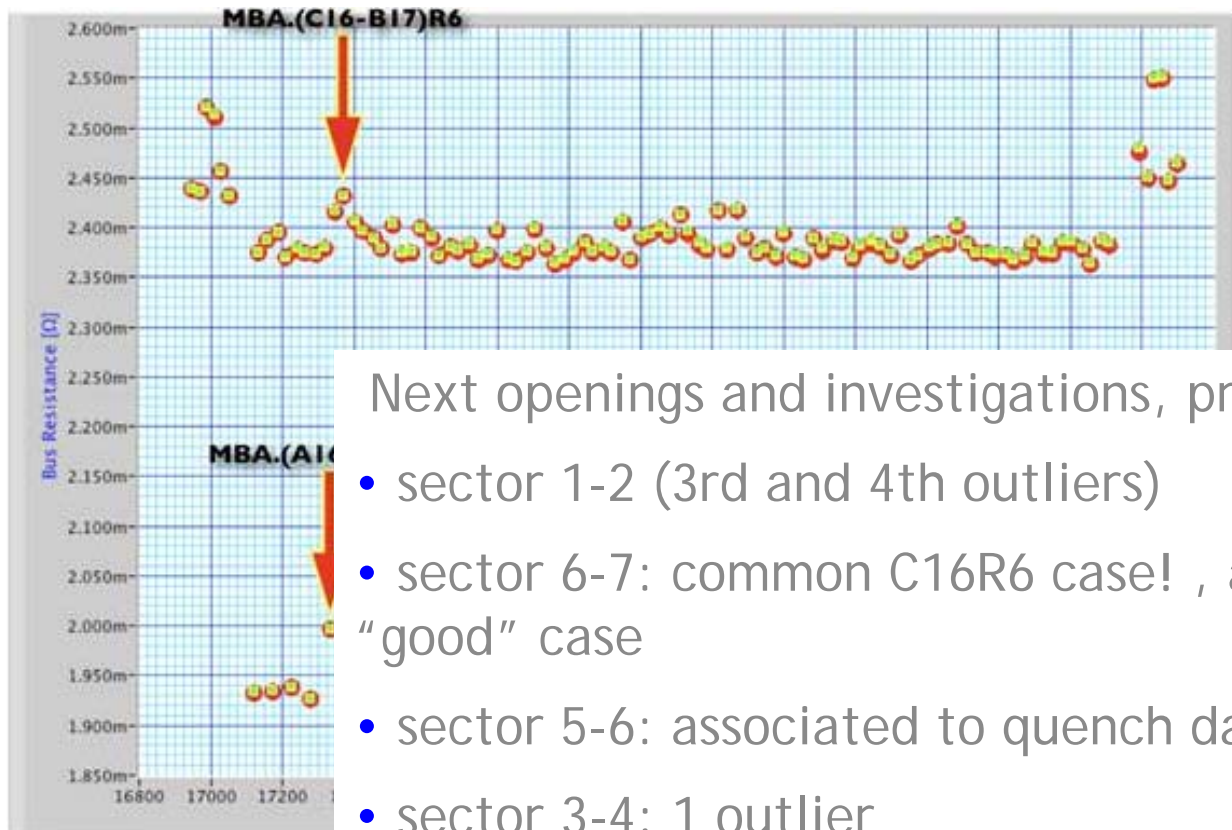
3-4 M3 splice resistance (copper)



Courtesy R. Flora



M3 splice resistance (copper)

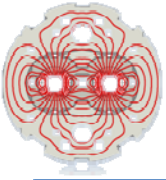


Next openings and investigations, priorities:

- sector 1-2 (3rd and 4th outliers)
- sector 6-7: common C16R6 case! , also open for a "good" case
- sector 5-6: associated to quench data
- sector 3-4: 1 outlier

Repair as of week 21 (after 3-4): leave some "as-is" for future diagnostics ...

Ongoing work: MQ circuits, cold testing

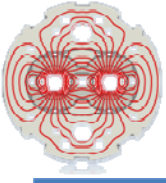


Consolidation DFBs



- good progress, nozzles and feet
- sector 3-4 equipped for mid June
- all other sectors equipped for end May

Courtesy O. Pirotte



Other sectors

- consolidation triplets OK (H. Prin)
- W closures and VACSEC leak testing:
 - 1-2 : 93% IC (but 21% VACSEC)
 - 5-6 : 96% (but 78% VACSEC)
 - 6-7 : 50% (but 14% VACSEC)i.e. effect of openings for splice resistances
- 5-6: work on Connection Cryostat (report to TETC tomorrow)
 - inserted 3 (of 6) 6m insulation pieces,
 - fixed point Q line successfully removed
 - Procedure for MB fixed point validated on surface
- 6-7: still more PIMs cut to remove plastic chips identified by endoscopy (...and so on...)
- 6-7: broken welds in several thermal shield found: investigations ongoing (cooldown or warmup transients)

Courtesy JP. Tock