



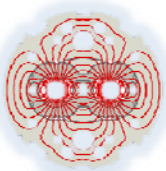
MMM and TEMB - 15 June, 2009

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# Status Report of Magnet Work Week 23 / 2009

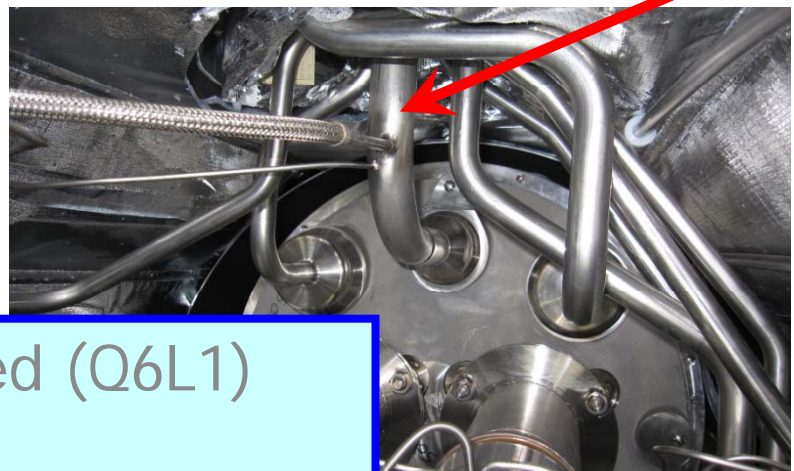
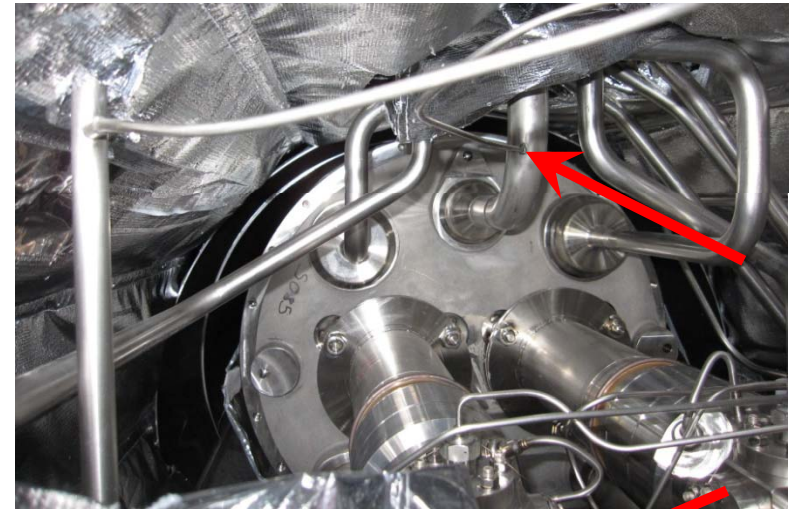
F Bertinelli / J Ph Tock - TE/MS

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

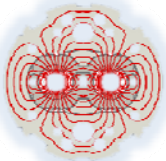


# SAM Helium level gauges (and relief valves): All are replaced

		MISE A JOUR le 11/06/2009 H000																					
vi	secteur	Position	Découpe soufflet	Découpe ligne LD	Ouverture fond bombe	Remplacemnt capillaire	Test Resiflage	Soudure ligne LD	Textradivide ligne LD	Soudure soufflet	Soudure Bride 160	Ouverture IAU 1	Detection global circuit interieur 2	Test global de l'envelage	Mix analyse sensée	Test en pression	Etat sous vide	PA	Tiges filtres in	out	A	B	Cable
02-04	5-9-10A	Q6L1				20													X				
		Q6L1																		X			
		Q6L1																			X		
		Q6L1																				X	
		Q6R1				5			vide														
		Q6R1				15			vide														
		Q6R1				4			vide														
		Q6L2				2			vide														
		Q6L2				3			vide														
		Q6L2																					
		Q6L2																					
		Q6R2																					
		Q6R2				12			vide														
		Q6R2*				25			vide														
		Q6R2*																					
		Q6L3*				10																	
		Q6R3				16			vide														
		Q6L4																					
		Q6L4																					
		Q6L4																					
		Q6L4				1			Rev														
		Q6L4				9			vide														
		Q6R4																					
		Q6R4																					
		Q6R4																					
		Q6R4																					
		Q6R4				7			vide														
		Q6L5*				18			vide														
		Q6L5*				24			vide														
		Q6L5				8			vide														
		Q6L5																					
		Q6L5																					
		Q6R5				14			vide														
		Q6R5				6			vide														
		Q6L6																					
		Q6L6																					
		Q6R6																					
		Q6R6																					
		Q6L7				13			vide														
		Q6R7				21																	
		Q6L8																					



Last SAM Helium level gauge replaced (Q6L1)  
 Q6R2 and Q6L8 for next shutdown because  
 linked to cold sectors, only if required (ALARA)

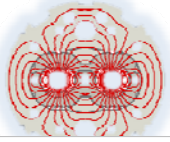


# 1-2 : All splices repaired/validated Sector closed

	Insulation	QC	M3 Weld	M3 TIG Inspection	K1 weld	K1 TIG Inspection	Leak test M3	Leak test K	Inspection	Closure	
QBBI.B29R1	I D Etiembre	2-Jun-09 C Scheuerlein	2-Jun-09 P Mesenge	3-Jun-09 P Heudent	4-Jun-09 J Fereirra	4-Jun-09 P Heudent	8-Jun-09 A Grimaud	4-Jun-09 A Grimaud	5-Jun-09 O Housiaux	8-Jun R Menolascina	9-Jun
QBQI.29R1	I D Etiembre	2-Jun-09 C Scheuerlein	2-Jun-09 P Mesenge	3-Jun-09 P Heudent	4-Jun-09		A Grimaud	4-Jun-09 A Grimaud	5-Jun-09 O Housiaux	8-Jun R Menolascina	9-Jun
QQBI.29R1	D Etiembre	2-Jun-09 C Scheuerlein	2-Jun-09 P Mesenge	3-Jun-09 N Zartarian	3-Jun-09 M Jamain	3-Jun-09 N Zartarian	3-Jun-09 A Grimaud	4-Jun-09 A Grimaud	5-Jun-09 O Housiaux	8-Jun R Menolascina	9-Jun
QBBI.B32R1	D Etiembre	2-Jun-09 C Scheuerlein	2-Jun-09 P Mesenge	3-Jun-09 N Zartarian	3-Jun-09 M Jamain	3-Jun-09 N Zartarian	3-Jun-09 A Grimaud	4-Jun-09 A Grimaud	5-Jun-09 O Housiaux	8-Jun R Menolascina	9-Jun
QBQI.32R1	D Etiembre	2-Jun-09 C Scheuerlein	2-Jun-09 P Mesenge	2-Jun-09 N Zartarian	2-Jun-09		A Grimaud	4-Jun-09 A Grimaud	5-Jun-09 O Housiaux	8-Jun R Menolascina	9-Jun
QQBI.32R1	D Etiembre	2-Jun-09 C Scheuerlein	3-Jun-09 P Mesenge	3-Jun-09 P Heudent	4-Jun-09 J Fereirra	4-Jun-09 P Heudent	4-Jun-09 A Grimaud	4-Jun-09 A Grimaud	5-Jun-09 O Housiaux	8-Jun R Menolascina	9-Jun
QQBI.30L2	No splice ; only W										
QBBI.B30L2	I D Etiembre	2-Jun-09 C Scheuerlein	2-Jun-09 P Mesenge	2-Jun-09 N Zartarian	2-Jun-09 M Jamain	2-Jun-09 N Zartarian	2-Jun-09 A Grimaud	8-Jun-09 A Grimaud	8-Jun-09 O Housiaux	8-Jun R Menolascina	10-Jun
QBBI.A30L2	D Etiembre	2-Jun-09 C Scheuerlein	3-Jun-09 P Mesenge	4-Jun-09 P Heudent	4-Jun-09 J Fereirra	4-Jun-09 P Heudent	4-Jun-09 A Grimaud	8-Jun-09 A Grimaud	8-Jun-09 O Housiaux	8-Jun R Menolascina	10-Jun
QQBI.23L2	No splice ; only W										
QBQI.18L2	D Etiembre	3-Jun-09 C Scheuerlein	3-Jun-09 P Mesenge	4-Jun-09 P Heudent	4-Jun-09		A Grimaud	8-Jun-09 A Grimaud	8-Jun-09 O Housiaux	8-Jun R Menolascina	10-Jun
QQBI.17L2	D Etiembre	3-Jun-09 C Scheuerlein	3-Jun-09 P Mesenge	4-Jun-09 P Heudent	4-Jun-09 J Fereirra	4-Jun-09 P Heudent	4-Jun-09 A Grimaud	9-Jun-09 A Grimaud	9-Jun-09 O Housiaux	9-Jun R Menolascina	10-Jun
QBBI.B17L2	D Etiembre	2-Jun-09 C Scheuerlein	3-Jun-09 P Mesenge	4-Jun-09 P Heudent	4-Jun-09 J Fereirra	4-Jun-09 P Heudent	4-Jun-09 A Grimaud	9-Jun-09 A Grimaud	9-Jun-09 O Housiaux	9-Jun R Menolascina	10-Jun
QBBI.A17L2	D Etiembre	2-Jun-09 C Scheuerlein	3-Jun-09 P Mesenge	4-Jun-09 P Heudent	4-Jun-09 J Fereirra	4-Jun-09 P Heudent	4-Jun-09 A Grimaud	9-Jun-09 A Grimaud	9-Jun-09 O Housiaux	9-Jun R Menolascina	10-Jun

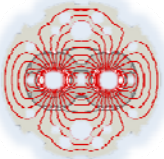
- 12 splices in 9 ICs redone

Last W bellows closed on 10<sup>th</sup> of June



# Tunnel News 3-4 D-area

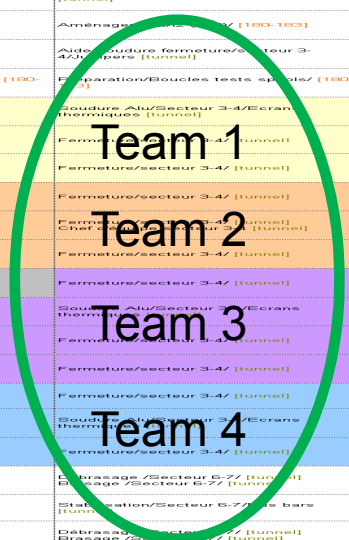
IC	BR	SP	V	E	Vc	C'	Y	X	Pq	M	K	Ktest	N-I	A1	A2	N	MN	Th	J	VacSec	Pre-insp.	W	To do before to close	
QBQI.19R3		2								4	3		C		2	4	4			A15R3	5	7	Reparation Thermome	
QQBI.19R3															2							5	7	
QBBI.A20R3															2							5	7	
QBBI.B20R3															2				10			10	11	Th
QBQI.20R3			12							4			3	2	5	5	10					11	12	MN, Th
QQBI.20R3			12												2							11	12	
QBBI.A21R															2							3	4	CLOSED
QBBI.B21R3															2				9			9	10	Th
QBQI.21R3										8			C		2	8	8	9	4		A19R3	9	10	M, Th
QQBI.21R3																						3	4	CLOSED
QBBI.A22R																						3	4	CLOSED
QBBI.B22R3																			10			10	11	
QBQI.22R3			12							4			C			5	5	10				11	12	
QQBI.22R3																						2	3	CLOSED
QBBI.A23R																						2	3	CLOSED
QBBI.B23R3																			5			5	8	
QBQI.23R3										3			C			4	4	5				5	8	
QQBI.23R3																						2	3	CLOSED
QBBI.A24R																						2	3	CLOSED
QBBI.B24R3																			5			5	8	
QBQI.24R3										3			C			4	4	5				8	9	
QQBI.24R3																						2	3	CLOSED
QBBI.A25R3																						2	3	CLOSED
QBBI.B25R3																			10			10	11	
QBQI.25R3			12							3			C			5	5	10			A23R3	11	12	
QQBI.25R3																						2	3	CLOSED
QBBI.A26R																						2	3	CLOSED
QBBI.B26R3																			5			5	8	
QBQI.26R3										3			C			4	4	5				8	9	
QQBI.26R3																						2	3	CLOSED
QBBI.A27R																						2	3	CLOSED
QBBI.B27R3																			8			8	9	
QBQI.27R3										4			C			5	5	8	3			8	9	
QQBI.27R3																						2	3	CLOSED
QBBI.A28R			12																			11	12	
QBBI.B28R3																			5			5	8	
QBQI.28R3										2			C			4	4	5				8	9	
QQBI.28R3												5										8	9	
QBBI.A29R																						8	9	
QBBI.B29R3																			10			10	11	Th
QBQI.29R3										9			C			9	9	10	5		A27R3	10	11	Th
QQBI.29R3											3	5										8	9	
QBBI.A30R											3	5										8	9	
QBBI.B30R3											3	5							10			10	11	Th
QBQI.30R3			12							2			C			5	5	10				11	12	Th
QQBI.30R3			12													2						11	12	
QBBI.A31R																						4	5	
QBBI.B31R3																						4	5	
QBQI.31R3																						11	12	Th
QQBI.31R3										10			C			10	10	11	8			11	12	Th
QBBI.A32R																						4	5	
QBBI.B32R3																						4	5	
QBQI.32R3			12							2			C			3	5	10			A31R3	10	11	Th
QQBI.32R3			12								3	8				3	2					11	12	N, M2N, Th
QBBI.A33R			12								3	8				3	2					11	12	
QBBI.B33R3			12								3	8				3	2					12	15	Th
QBQI.33R3	2	3	12																			12	15	M, N, MN, Th
QQBI.33R3			12							11						3	11	11	12	9		12	15	
QBBI.A31L4											3	8				3	6				A31L4	11	12	



# Tunnel News Sector 3-4

- Some milestones:
  - 2 First VACSECs delivered for pumping and leak testing

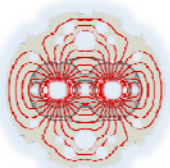
Célébration	Semaine 25, 2009	lundi, 15. juin 2009	mardi, 16. juin 2009	mercredi, 17. juin 2009	jeudi, 18. juin 2009	vendredi, 19. juin 2009
17 AT-10	Lucien SILARDRO [164159]	Soudure/secteur 3-4/Ligne M (tunnel)	Soudure/secteur 3-4/Ligne M (tunnel)	Soudure/secteur 3-4/Ligne M (tunnel)	Aménagement/2 (180)/ (180-183)	Aménagement/2 (180)/ (180-183)
21 AT-12	Max JAMAIN [164294]	Fermature/secteur 3-4/Jumpers Z (tunnel)	Fermature/secteur 3-4/Jumpers Z (tunnel)	Fermature/secteur 3-4/Jumpers Z (tunnel)	Fermature/secteur 3-4/Jumpers Z (tunnel)	Fermature/secteur 3-4/Jumpers Z (tunnel)
24 AT-10	Yves GUYON [165211]	Isolation/secteur 3-4/Ligne M (tunnel)	Isolation/secteur 3-4/Ligne M (tunnel)	Test MCM/masse froide quadripolaire/ (180-183)	Aménagement/2 (180)/ (180-183)	Aménagement/2 (180)/ (180-183)
28 AT-10	Yves GUYON [165211]	Isolation/secteur 3-4/Jumpers (tunnel)	Préparation fermature/secteur 3-4/Jumpers (tunnel)	Aide soudure fermature/secteur 3-4/Jumpers (tunnel)	Aide soudure fermature/secteur 3-4/Jumpers (tunnel)	Aide soudure fermature/secteur 3-4/Jumpers (tunnel)
35 AT-10	Ekrédine MAJDOUB [161154]	Soudure US/GBQI.2SR5/spools (tunnel)	Soudure US/GBQI.2SR5/spools (tunnel)	Préparation/Boucles tests spools/ (180-183)	Préparation/Boucles tests spools/ (180-183)	Préparation/Boucles tests spools/ (180-183)
3 TS-MME	André CABRIET [164159]	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)
9 AT-12	GUYON YVES [165211]	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
10 AT-10	Hugues DUFOUR [165172]	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
13 AT-12	Jean-Luc BRET [164159]	Congés	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
29 STAFF	Stéphane [164159]	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
34 AT-12	Raviy MASCIOTTRA [164159]	Montage/secteur 3-4 (GBQ)/coquilles protection sur les soudures (voir Nicolas) (tunnel)	Montage/secteur 3-4 (GBQ)/coquilles protection sur les soudures (voir Nicolas) (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
4 AT-10	Czesław SZYMA [164159]	Fermature/secteur 3-4/ (tunnel)	Délégation	Délégation	Délégation	Fermature/secteur 3-4/ (tunnel)
14 TS-MME	Max JAMAIN [164294]	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)
20 AT-12	Ludovic GRANDCLEMENT [160986]	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
23 STAFF	Max DUBET [164159]	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
26 AT-10	PHILIPPE DE SOUZA [164390]	Isolation ML/secteur 3-4/Jumpers (tunnel)	Isolation ML/secteur 3-4/Jumpers (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
33 AT-10	Rahil MAROUAM [164380]	Soudure/secteur 3-4/ligne M2N (tunnel)	Soudure/secteur 3-4/ligne M2N (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)	Soudure Alu/Secteur 3-4/Ecrans thermiques (tunnel)
32 AT-10	Xavier FAVRE [165482]	Isolation/secteur 5-7/Ligne M (tunnel)	Isolation/secteur 5-7/Ligne M (tunnel)	Stabilisation/Secteur 5-7/Bus bars (tunnel)	Fermature/secteur 3-4/ (tunnel)	Fermature/secteur 3-4/ (tunnel)
6 AT-10	Emmanuel [164159]	Brassage/Secteur 5-7/Bus bars (tunnel)	Brassage/Secteur 5-7/Bus bars (tunnel)	Brassage/Secteur 5-7/Bus bars (tunnel)	Brassage/Secteur 5-7/Bus bars (tunnel)	Brassage/Secteur 5-7/Bus bars (tunnel)
8 AT-12	Gregory MAURY [163332]	Formation	Formation	Stabilisation/Secteur 5-7/Bus bars (tunnel)	Stabilisation/Secteur 5-7/Bus bars (tunnel)	Stabilisation/Secteur 5-7/Bus bars (tunnel)
15 AT-10	Karim KALLAT [164159]	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)
18 AT-10	Ludovic FAVIER [161867]	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)
22 STAFF	Max POZZOBON [164750]	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)	Brassage /Secteur 5-7/ (tunnel)
5 STAFF	Dimitri EMBRE [164750]	Congés	Congés	Congés	Congés	Congés
12 STAFF	Jean-Michel HUBERT [160754]	Congés	Congés	Congés	Congés	Congés
27 TS-MME	Pierre LAMBERT [164159]	Découpe suivant demande JP Teck (tunnel)	Découpe suivant demande JP Teck (tunnel)	Découpe suivant demande JP Teck (tunnel)	Entretien/Machines DN200/ (180-183)	Entretien/Machines DN200/ (180-183)
2 AT-10	André FRENAIZIN [164159]	Aménagement (180-183)	Aménagement (180-183)	Aménagement (180-183)	Aménagement (180-183)	Aménagement (180-183)
11 AT-10	Jean-François [163191]	LAYOUT/zone de stockage 183/ (180-183) dipôles/ (180-183)	LAYOUT/zone de stockage 183/ (180-183) dipôles/ (180-183)	Entretien/Machines DN200/ (180-183)	Entretien/Machines DN200/ (180-183)	Entretien/Machines DN200/ (180-183)
16 AT-12	Khalil CHAOUKI [165070]	Préparation/bus bars avec C. Uppin/ (180-183)	Préparation/bus bars avec C. Uppin/ (180-183)	Préparation/bus bars avec C. Uppin/ (180-183)	Préparation/bus bars avec C. Uppin/ (180-183)	Préparation/bus bars avec C. Uppin/ (180-183)
19 AT-10	Ludovic GODET [164159]	Tests électriques/Dipôles/ (180-183)	Tests électriques/Dipôles/ (180-183)	Tests électriques/Dipôles/ (180-183)	Tests électriques/Dipôles/ (180-183)	Tests électriques/Dipôles/ (180-183)
30 AT-10	Sylvain CAILLE [162742]	Usinage/Résistances Dump Resistors additionnelles/ (180-183)	Usinage/Résistances Dump Resistors additionnelles/ (180-183)	Usinage/Outillage compression tyres dipôles/ (180-183)	Usinage/Outillage compression tyres dipôles/ (180-183)	Usinage/Outillage compression tyres dipôles/ (180-183)
31 AT-10	Sylvain LEBLANC [164159]	Maladie	Maladie	Maladie	Maladie	Maladie
7 ISS	François BOUSSEL [160754]	Logistique/aménagement sous sol 181/ (180-183)	Logistique/aménagement sous sol 181/ (180-183)	Logistique/aménagement sous sol 181/ (180-183)	Logistique/aménagement sous sol 181/ (180-183)	Logistique/aménagement sous sol 181/ (180-183)
36 AT-10	William VIOZAT [164159]	Logistique (180-183)	Logistique (180-183)	Logistique (180-183)	Logistique (180-183)	Logistique (180-183)
25 AT-12	Olivier MASTEL [160754]	Usinage (927)	Usinage (927)	Usinage (927)	Usinage (927)	Usinage (927)



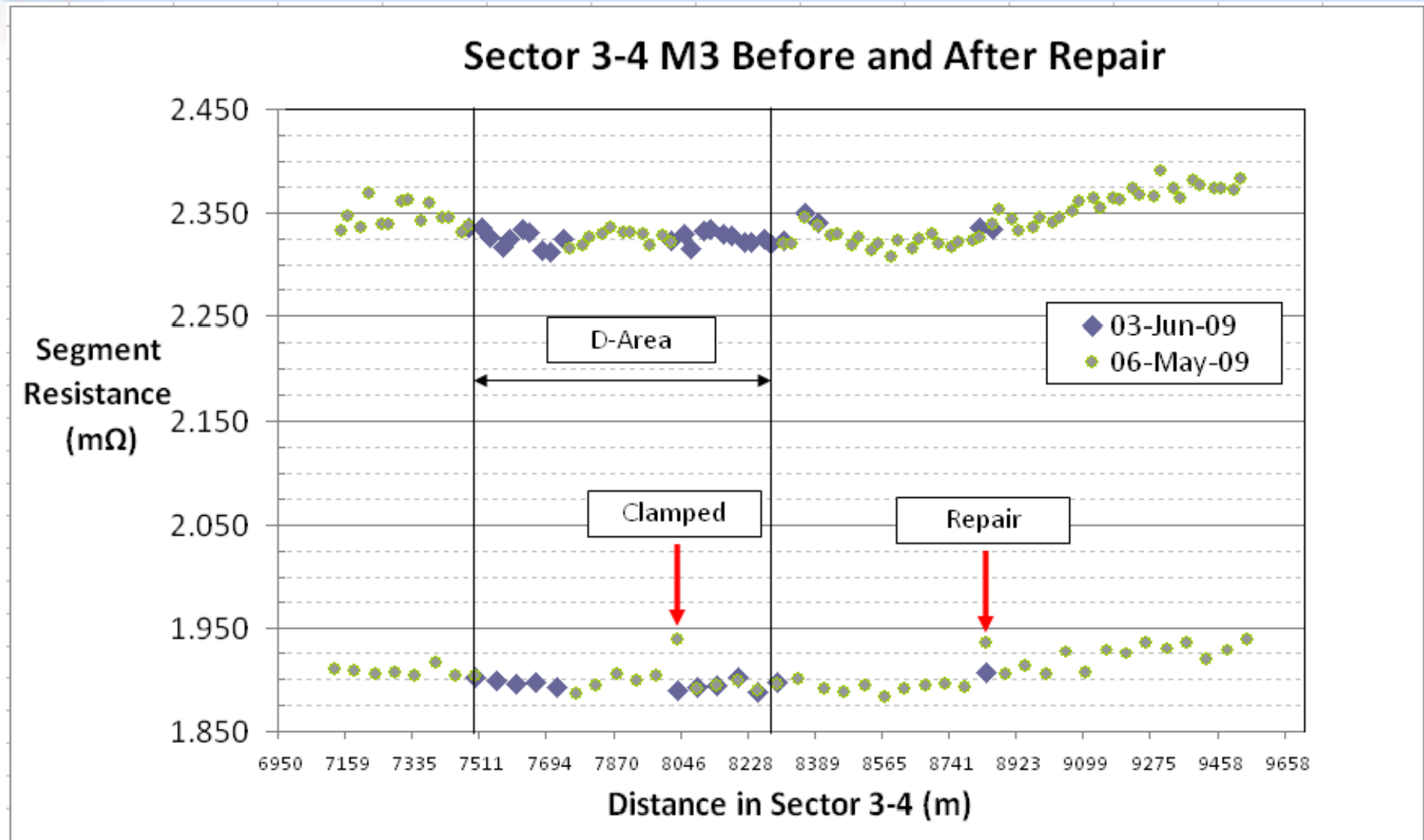
Plan to close last W bellows beginning of W26

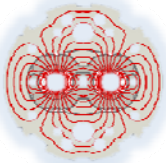
Attention this week to:

- Preinspections before closure
- Closures of W bellows
- Increased resources
- 3.5 CERN teams + one S108 to close W bellows



# 3-4 M3 splice resistance (copper)

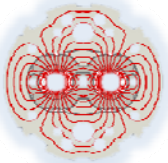




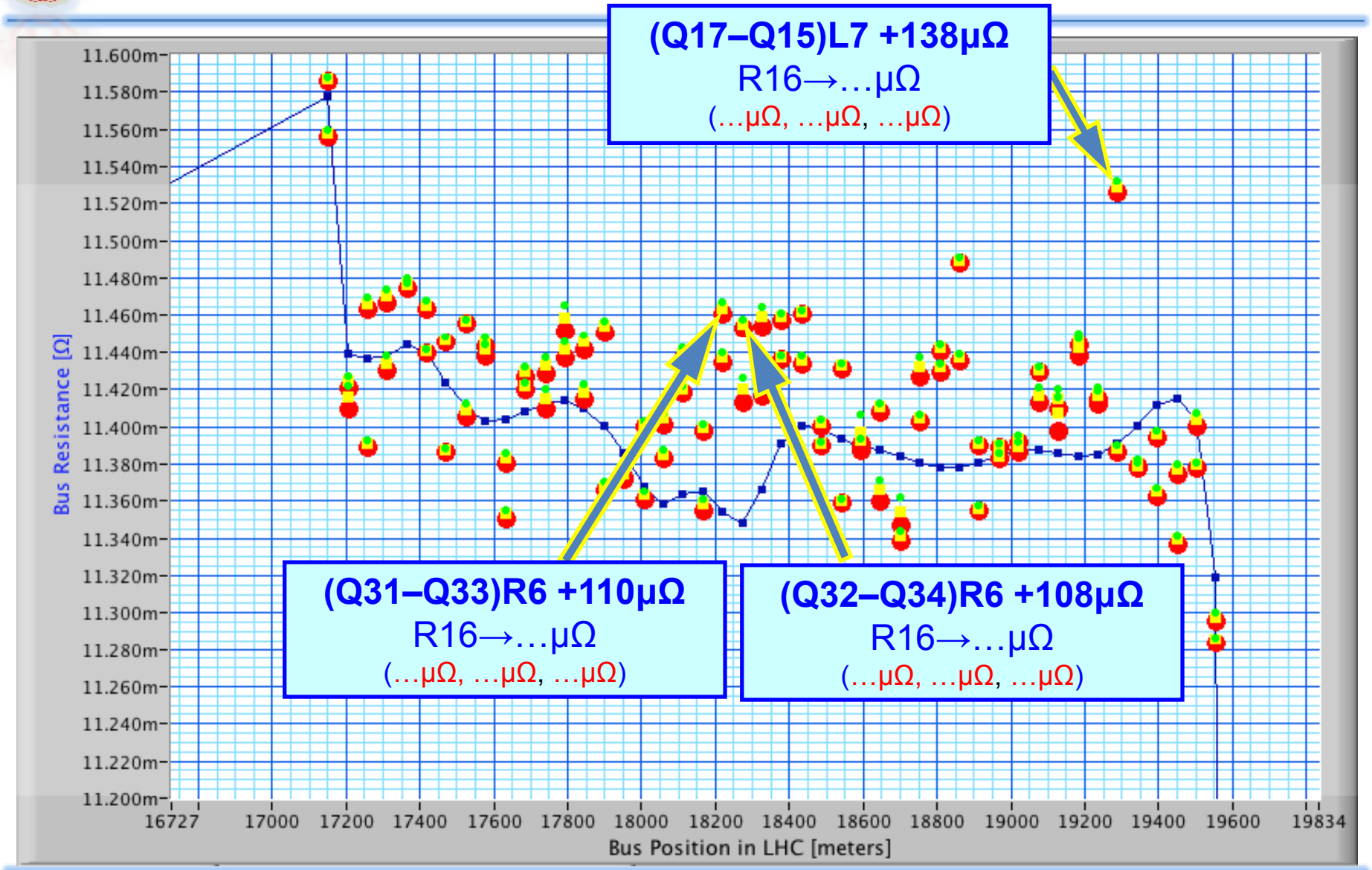
# 5-6 splice repair

- 13 dipole and 1 quadrupole splices in 10 ICs redone
- CC consolidation is completed
- Closure of W bellows for end of this week (W25)

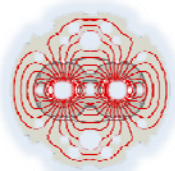
			Resoldering	QC	Soudure spool	ELQA M182	Insulation	QC	MWeld	MTIG Inspection	K1 weld	K1 TIG Inspection	Leak test M	Leak test K	Inspection	Closure
QEQL11R5	M3						D Etienne 4-Jun-09 P Thonet 9-Jun-09 P Mesenge 9-Jun-09 P Heudent 10-Jun-09						A Grimaud 11-Jun-09		15-Jun-09	15-Jun-09
QBBI.B18R5	M3						D Etienne 4-Jun-09 P Thonet 9-Jun-09 P Mesenge 9-Jun-09 P Heudent 10-Jun-09				Jose 9-Jun-09 P Heudent 10-Jun-09		A Grimaud 15-Jun-09	16-Jun-09	16-Jun-09	16-Jun-09
QBQI.18R5	M3	Cor	M Pozzobon 10-Jun C Scheuerlein 10-Jun-09				G Maury 11-Jun-09 P Borowiec 11-Jun-09 P Mesenge 11-Jun-09						15-Jun-09		16-Jun-09	16-Jun-09
QBBI.18R5	M3						D Etienne 2-Mar-00 P Thonet 9-Jun-09 P Mesenge 9-Jun-09 P Heudent 10-Jun-09				Jose 9-Jun-09 P Heudent 10-Jun-09		15-Jun-09	16-Jun-09	16-Jun-09	16-Jun-09
QBBI.A19R5	M3	Cryo	M Pozzobon 10-Jun C Scheuerlein 10-Jun-09				G Maury 11-Jun-09 P Borowiec 11-Jun-09 P Mesenge 11-Jun-09				12-Jun-09	15-Jun-09	15-Jun-09	16-Jun-09	16-Jun-09	16-Jun-09
QBBI.B19R5	M3	Cor&Cryo	M Pozzobon 10-Jun C Scheuerlein 10-Jun-09				G Maury 11-Jun-09 P Borowiec 11-Jun-09 P Mesenge 11-Jun-09				12-Jun-09	15-Jun-09	15-Jun-09	16-Jun-09	16-Jun-09	16-Jun-09
QBQI.19R5	M3	Cor&Cryo	M Pozzobon 11-Jun	12-Jun-09			G Maury 12-Jun-09 P Thonet 12-Jun-09						15-Jun-09		16-Jun-09	16-Jun-09
QBQI.25R5	M3						D Etienne 4-Jun-09 P Thonet 8-Jun-09 P Mesenge 9-Jun-09 P Heudent 10-Jun-09								16-Jun-09	18-Jun-09
	M1	Cor&Cryo	M Pozzobon 11-Jun	12-Jun-09			G Maury 16-Jun-09 P Thonet 16-Jun-09		17-Jun-09	17-Jun-09				17-Jun-09	18-Jun-09	
QBBI.25R5	M3						D Etienne 8-Jun-09 P Thonet 8-Jun-09 P Mesenge 9-Jun-09 P Heudent 10-Jun-09				Jose 9-Jun-09 P Heudent 10-Jun-09		16-Jun-09	16-Jun-09	16-Jun-09	17-Jun-09
QBQI.15L6	M3	Cor	M Pozzobon 9-Jun C Scheuerlein 10-Jun-09				G Maury 11-Jun-09 C Scheuerlein 11-Jun-09		11-Jun-09		12-Jun-09	12-Jun-09	15-Jun-09	16-Jun-09	16-Jun-09	17-Jun-09
QBBI.14L6	M3	Cor&Cryo	L Favier 11-Jun	12-Jun-09			G Maury 12-Jun-09 P Thonet 11-Jun-09		11-Jun-09		12-Jun-09	12-Jun-09	15-Jun-09	16-Jun-09	16-Jun-09	17-Jun-09
QBBI.B14L6	M3	Cryo	M Pozzobon 8-Jun C Scheuerlein 10-Jun-09				G Maury 11-Jun-09 C Scheuerlein 11-Jun-09		11-Jun-09		12-Jun-09	12-Jun-09	15-Jun-09	16-Jun-09	16-Jun-09	17-Jun-09
QBBI.A14L6	M3	Cryo	M Pozzobon 8-Jun C Scheuerlein 10-Jun-09				G Maury 11-Jun-09 C Scheuerlein 11-Jun-09		11-Jun-09		12-Jun-09	12-Jun-09	15-Jun-09	16-Jun-09	16-Jun-09	17-Jun-09
QBQI.14L6	M3	Cor&Cryo	M Pozzobon 4-Jun C Scheuerlein 10-Jun-09				G Maury 11-Jun-09 C Scheuerlein 11-Jun-09		11-Jun-09		12-Jun-09		15-Jun-09		16-Jun-09	18-Jun-09
QEEL11L6	M1						D Etienne 4-Jun-09 P Thonet 8-Jun-09 P Mesenge 10-Jun-09 P Heudent 10-Jun-09						15-Jun-09		16-Jun-09	18-Jun-09
QEEL11L6	M1						G Maury 12-Jun-09 P Thonet 15-Jun-09		15-Jun-09		12-Jun-09		15-Jun-09			
	M2						G Maury 12-Jun-09 P Thonet 15-Jun-09		15-Jun-09		12-Jun-09	12-Jun-09	15-Jun-09	16-Jun-09	16-Jun-09	18-Jun-09
	M3						D Etienne 4-Jun-09 P Thonet 8-Jun-09 P Mesenge 10-Jun-09 P Heudent 11-Jun-09						15-Jun-09			
QEDI.5L6	M3					D Etienne 4-Jun-09 P Thonet 8-Jun-09 P Mesenge 9-Jun-09 P Heudent 10-Jun-09							15-Jun-09		16-Jun-09	18-Jun-09



# 6-7 M1&M2 splice resistance (copper)







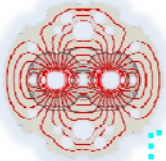
## Sector 6-7

- 60 opened ICs completely
- 24 (32) extra M lines opened to investigate 3 out of 4 main outliers
- Beam lines are welded and leak tested (one material leak varnished)
- Resoldering of dipole splices is starting
- Investigations are on-going on quadrupole splices

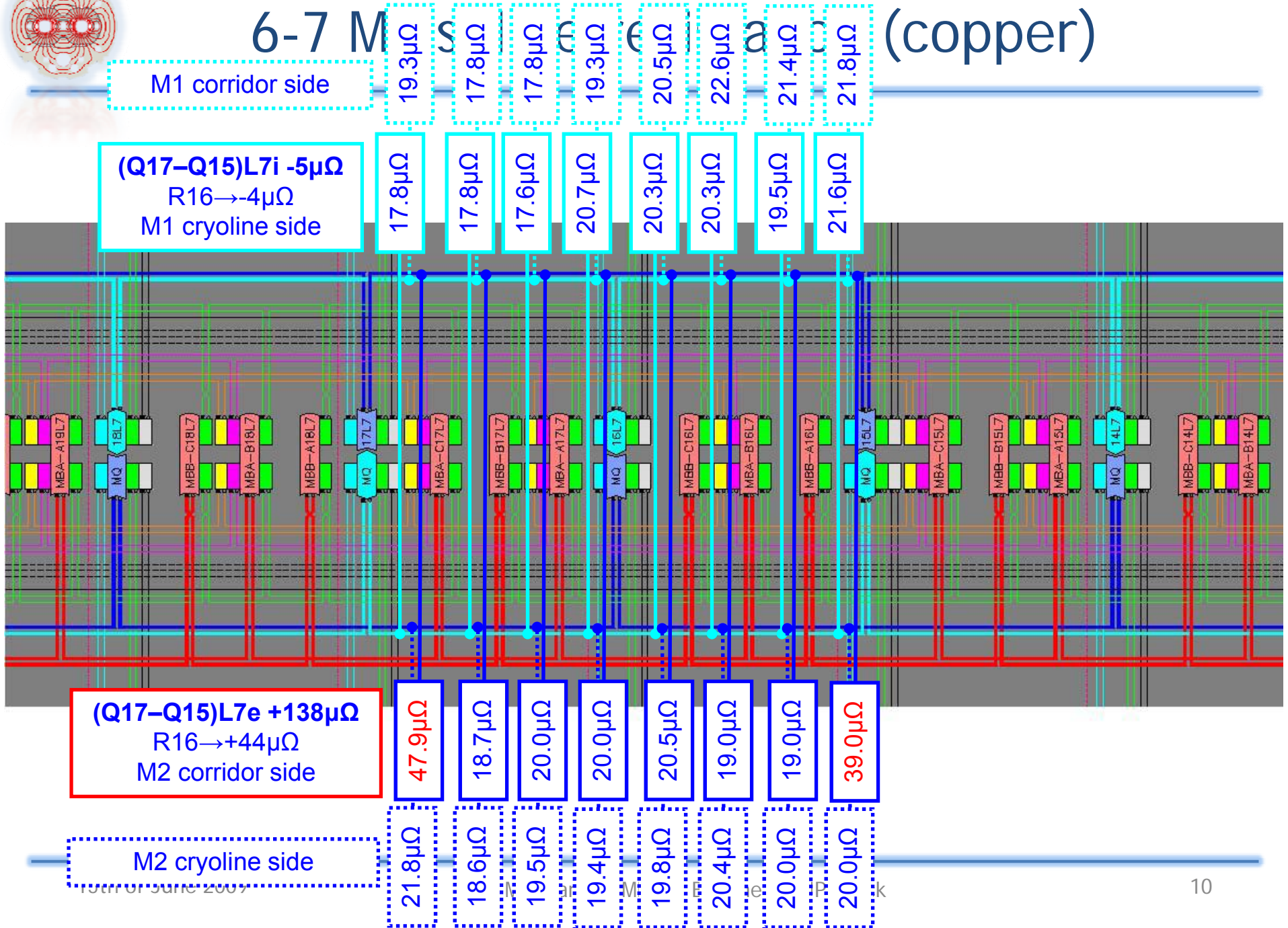
3-4 came later, but no significant change to list

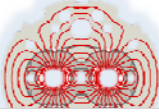
Courtesy R. Flora

	Hit List			Investigated outliers	
	$\partial R$ [ $\Omega$ ]	x [m]	Bus Segment Span		
6-7	138.1u	19287	RQAT.[Q17L7<->Q15L7]e	←	
6-7	111.6u	18859	RQOA.[Q25L7<->Q23L7]e		
6-7	110.2u	18218	RQOA.[Q31R6<->Q33R6]e		←
6-7	107.6u	18271	RQOB.[Q32R6<->Q34R6]e		←
6-7	93.5u	18325	RQOA.[Q33R6<->Q33L7]e		
5-6	89.9u	13977	RQAT.[Q14R5<->Q16R5]e		
5-6	89.1u	14084	RQAT.[Q16R5<->Q18R5]e		
1-2	85.4u	1824	RQOA.[Q32L2<->Q30L2]e		
6-7	83.7u	18218	RQOA.[Q31R6<->Q33R6]i		
5-6	83.4u	14832	RQOA.[Q30R5<->Q32R5]e		
5-6	79.2u	13870	RQAT.[Q12R5<->Q14R5]e		
6-7	75.3u	18111	RQOA.[Q29R6<->Q31R6]e		
6-7	71.9u	18271	RQOB.[Q32R6<->Q34R6]i		
6-7	69.0u	18378	RQOB.[Q34R6<->Q32L7]e		
5-6	66.3u	15687	RQOA.[Q22L6<->Q20L6]e		
1-2	65.0u	1824	RQOA.[Q32L2<->Q30L2]i		
1-2	64.6u	968	RQAT.[Q20R1<->Q22R1]e		
6-7	64.2u	18806	RQOB.[Q26L7<->Q24L7]e		



# 6-7 M (copper)





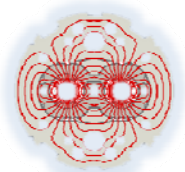
# W to be closed : decreasing

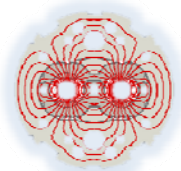
LHC SECTORS OPENINGS FOLLOW UP								
	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-1
	1R	2R	3R	4R	5R	6R	7R	8R
OOB1.7 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OOR1.7 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.8 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.8 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.9 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.9 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.10 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.10 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.11 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.11 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.12 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.12 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.13 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.13 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.14 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.14 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.15 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.15 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.16 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.16 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.17 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.17 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.18 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.18 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.19 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.19 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.20 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.20 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.21 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.21 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.22 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.22 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.23 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.23 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.24 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.24 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.25 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.25 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.26 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.26 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.27 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.27 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.28 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.28 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.29 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.29 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.30 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.30 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.31 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.31 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.32 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.32 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.33 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.33 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.34 R	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
OBB1.34 L	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue

	Closed IC
	Cold sector
	Opened IC
	Opening > 33 %
	Non existing IC
	Critical NC

1-2	0
2-3	0
3-4	> 70
4-5	0
5-6	20
6-7	60
7-8	0
8-1	0
LSSs	0
TOTAL	> 150

- 1-2 closed
- More openings in 6-7
- 4-5 coming soon



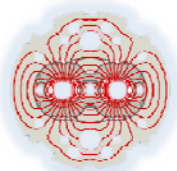


## 3-4 M3 splice resistance (copper)

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Note:

- D-area (new splices) vs outside D-area (old splices)
- temperature effect: ends of Sector 3-4 are warmer
- repaired splice, before and after
- clamped splice, then soldered
- ~12 remeasured segments, good repetitiveness



## Sector 4-5

### Interventions planned :

- Elec tests

- RF ball test and PIMs replacement (if any)

Sector already warmed-up and failed PIMs changed/ SSSs moved 2mm downstream

- Reinforce insulation in CC L5

- Install DN200 at critical locations and/or where effort is reasonable and time available

- Central VACSEC

- DSL5

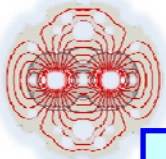
- 1<sup>st</sup> outlier

- DSR4

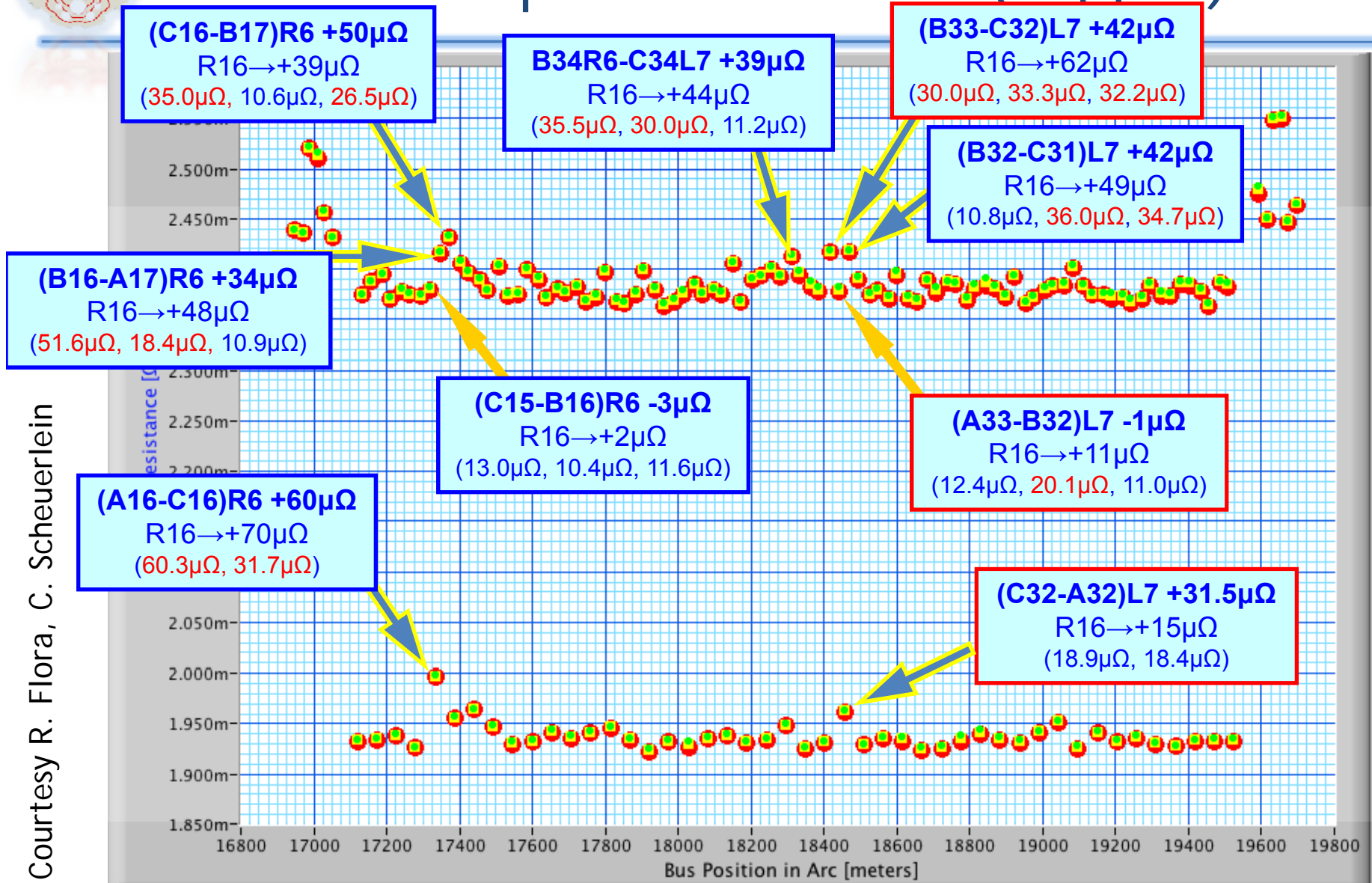
- VACSEC opened for PIMs/splices

[m]	InspDate	M1Up	M2Up	M3Up	M1Ds	M2Ds	M3Ds	Total	Insp	Meas
11R1	28-Feb-08	OK	OK	OK	OK	OK	OK	11R1	Yes	No
11L2	6-Mar-08	OK	OK	OK	OK	OK	OK	11L2	Yes	No
11R2	10-Mar-08	OK	OK	1.39	OK	OK	1.01	11R2	Yes	Part
11L3	12-Mar-08	OK	1.17	1.76	OK	OK	1.5	11L3	Yes	Part
11R3	27-Mar-08	OK	OK	OK	OK	OK	OK	11R3	Yes	No
11L4	1-Apr-08	OK	OK	OK	1.01	1.04	1.04	11L4	Yes	Part
11R4	4-Apr-08	OK	OK	OK	OK	OK	OK	11R4	Yes	No
11L5	9-Apr-08	OK	OK	2.07	OK	OK	OK	11L5	Yes	Part
11R5	3-Feb-09	OK	OK	OK	OK	OK	1.57	11R5	Yes	Part
11L6	13-Feb-09	1.52	OK	1.28	1.27	1.2	1.16	11L6	Yes	Part
5L6*	20-Feb-09	OK	OK	OK	OK	OK	OK	5L6	Yes	Yes
11R6	18-Feb-08	OK	OK	OK	1.03	1.25	1.21	11R6	Yes	Part
11L7	19-Feb-08	OK	OK	1.5	OK	OK	1.8	11L7	Yes	Part
11R7	7-Feb-08	OK	OK	OK	OK	OK	OK	11R7	Yes	No
11L8	Not done	?	?	?	?	?	?	11L8	No	No
11R8	25-Feb-08	OK	OK	OK	1.14	OK	1.16	11R8	Yes	Part
11L1	26-Feb-08	OK	OK	1.7	OK	OK	OK	11L1	Yes	No

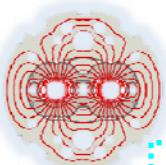
- Grind paint wherever possible in the allocated time window



# 6-7 M3 splice resistance (copper)



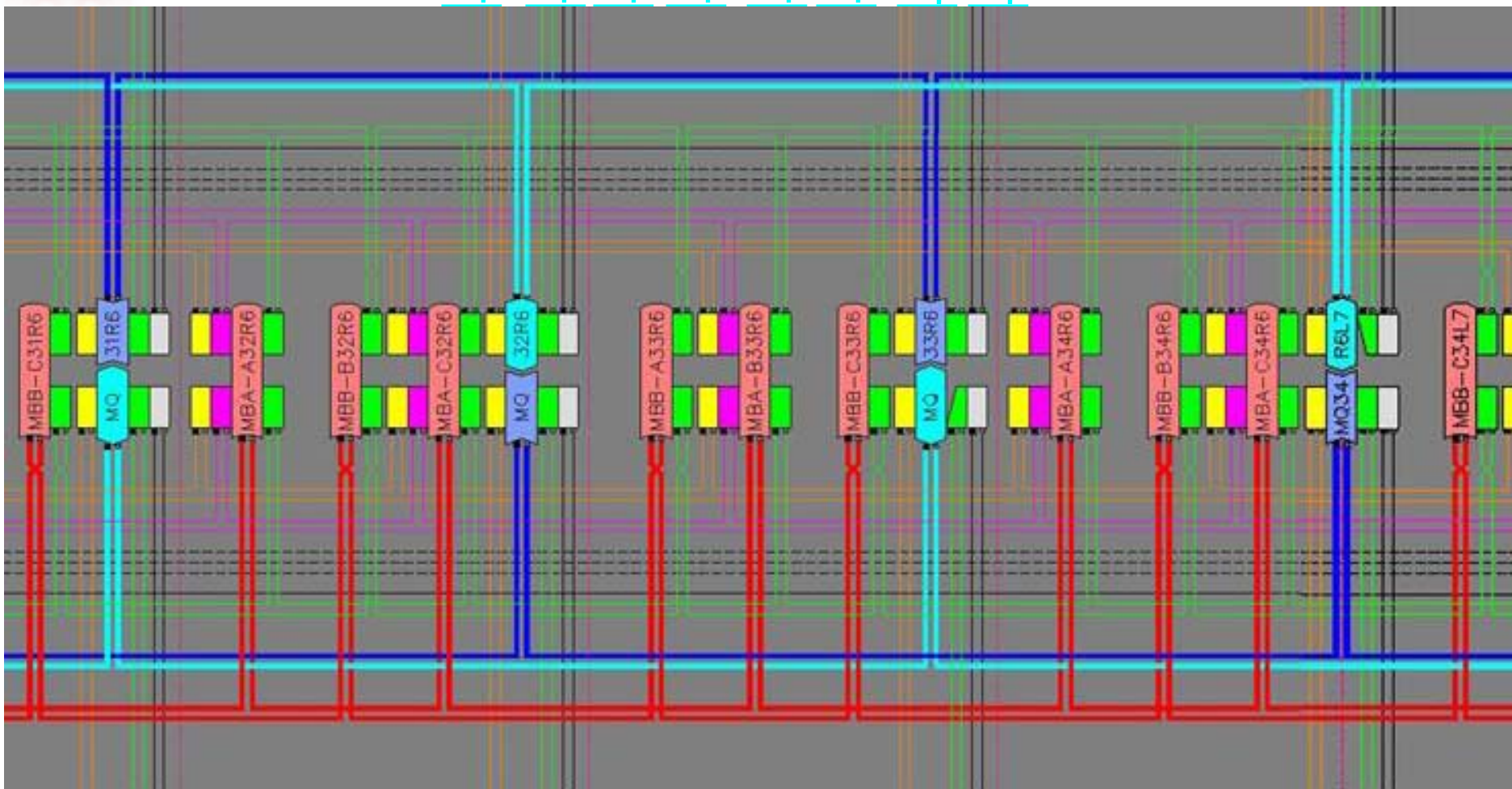
Courtesy R. Flora, C. Scheuerlein



# 6-7 M (copper)

M1 corridor side

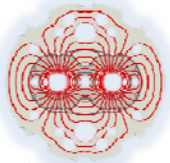
- 19.3 $\mu\Omega$
- 17.8 $\mu\Omega$
- 17.8 $\mu\Omega$
- 19.3 $\mu\Omega$
- 20.5 $\mu\Omega$
- 22.6 $\mu\Omega$
- 21.4 $\mu\Omega$
- 21.8 $\mu\Omega$



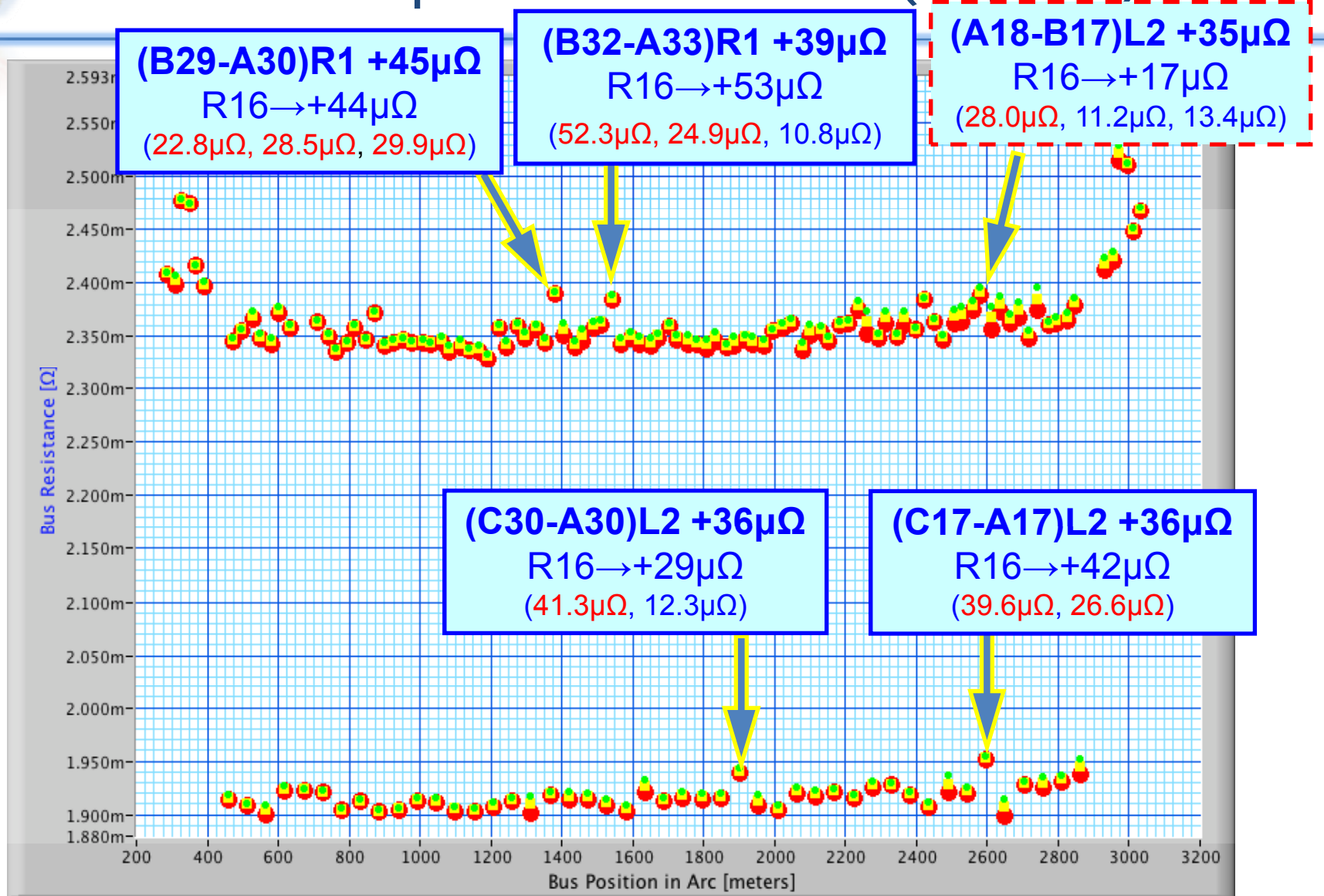
M2 cryoline side

- 21.8 $\mu\Omega$
- 18.6 $\mu\Omega$
- 19.5 $\mu\Omega$
- 19.4 $\mu\Omega$
- 19.8 $\mu\Omega$
- 20.4 $\mu\Omega$
- ... $\mu\Omega$
- ... $\mu\Omega$





# 1-2 M3 splice resistance (copper)



Courtesy R. Flora, C. Scheuerlein

# Sector 4-5

MBA (B16-C15)L5

