Current lead of RQTL9.R3B1 is wet and frozen due to wrong regulation of the cryo-valve. OK from A. Siemko to continue operation given the low current (<14 A @ 3.5TeV) → no pre-cycle and limitation to 20 A.

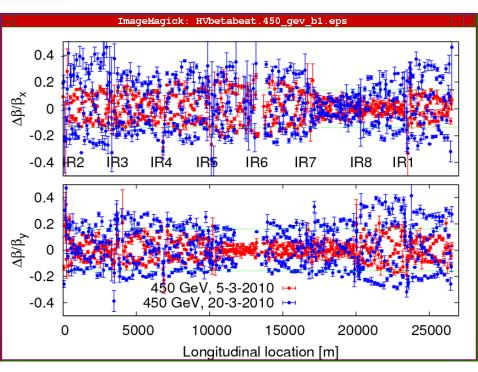


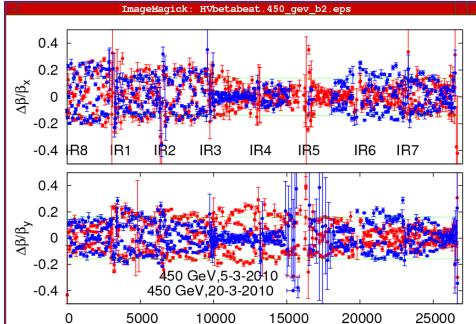


- Protection in case of dump with 14 out of 15 kickers:
 - Verification of the knob to simulate this situation is required
- Setting-up of TI2 collimators completed (TI8 was already done)
- Calibration of the LSS6 interlocked BPMs only started (to be continued)

 β -beating measurement @ 450 GeV. Change observed on beam 1 as compared to 5/3.

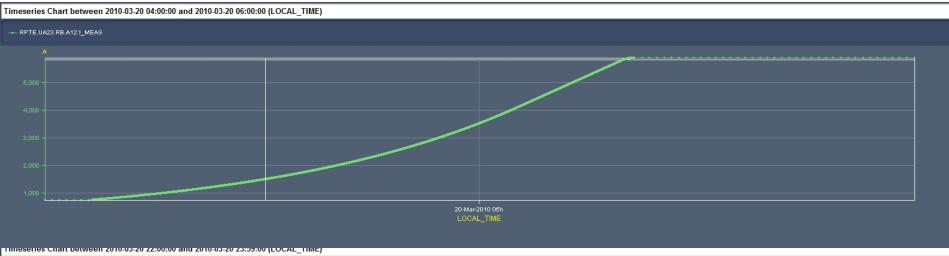
Beam 1 Beam 2





Longitudinal location [m]

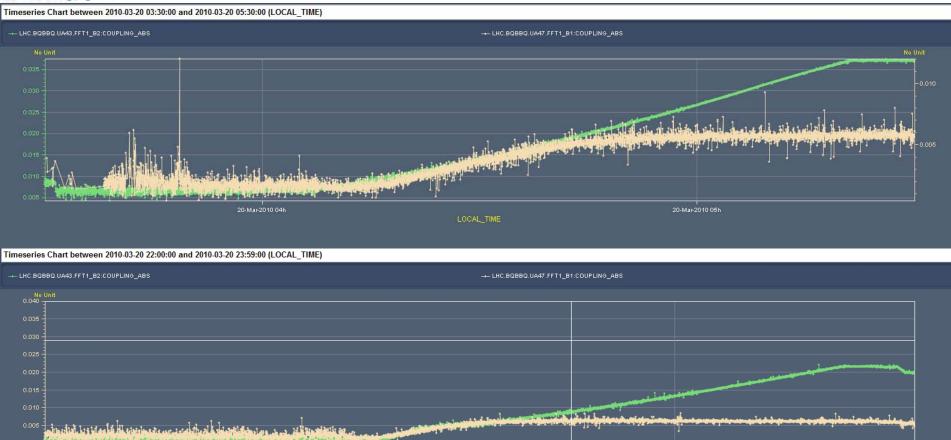
Another ramp to 3.5 TeV but with reduced ramp time (parabolic-linear-parabolic instead of parabolic-exponential-linear-parabolic) reduction by 27 min



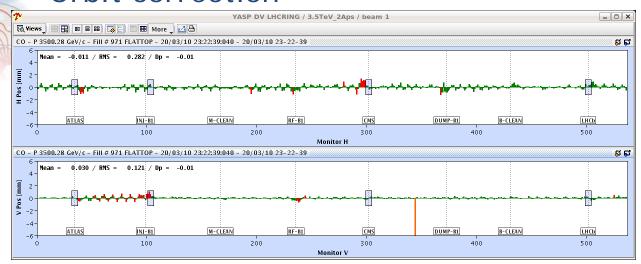


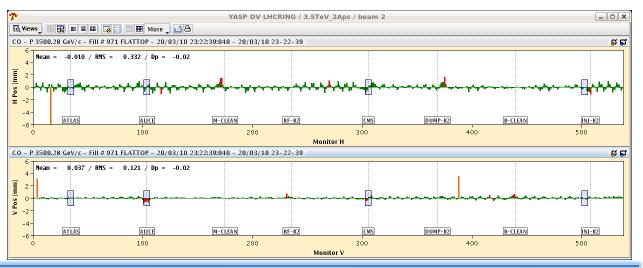
20-Mar-2010 23h

Reduction of the coupling by a factor 2 at the end of the ramp. Not enough time to correct it. Still some work to do...



Orbit correction





Trip of the trim quadrupoles due to a large dl/dt requested by the tune feedback ~7 mins after the end of the ramp → to be followed-up. Intercepted by the PIC, first channel to trigger. No BLM above threshold.

BIC/EVENT	_SEQ						□ ^k X
	HEADER		SUMMARY				
System Class Source	BIC EVENT_SEQ ISA		pmAnalysisModuleVersion 0.3.23 Analysis result description First input change detected: USER_PERMIT: Ch 1 Triggered BIC inputs Ch 12(PIC_MSK), Ch 3(LBDS-b1), Ch 3(LBDS-b)				> F on CIB.UA67.R6.B2
Event stamp Version Encoding Qualifier Analysis flags	23:22:49.122 20/03/10 0.3.23 BIC/EVENT_SEQ [NORMAL]		Beam 1 propagation delay to LBDS 4000 ns Beam 2 propagation delay to LBDS 5000 ns OVERALL 38 BICs triggered valid PM data				
<u> </u>			EVENT OVERVIEW			<u> </u>	SOURCE OVERVIEW
Index Loc.Pi 197 198 199	23:22:49+122158 23:22:49+122158 23:22:49+122158 23:22:49+122159 23:22:49+122170 23:22:49+122170 23:22:49+122171 23:22:49+122171 23:22:49+123775 23:22:49+123775 23:22:49+123775 23:22:49+12385 23:22:49+123845 23:22:49+123845 23:22:49+123845 23:22:49+123845 23:22:49+123845 23:22:49+123845 23:22:49+123845 23:22:49+123845 23:22:49+123845 23:22:49+123845 23:22:49+200978 23:22:49+200977 23:22:49+200977 23:22:49+200977	Delta(t) 0 0 1 12 12 12 13 13 1616 1617 1617 1617 1687 1687 1687 1687	USEC) LUSER_PERMIT: Ch 1 LUSER_PERMIT: Ch 3 LUSER_PERMIT: Ch 3	2(PIC_MSK): A T -> F 2(PIC_MSK): B T -> F 2(PIC_MSK): A T -> F 2(PIC_MSK): B T -> F 2(PIC_MSK): A T -> F 2(PIC_MSK): B T -> F 2(PIC_MSK	BIC name CIB. UA67. R6. B2 CIB. UA67. R6. B1 CIB. UA67. R6. B1 CIB. UA67. R6. B1 CIB. UA67. R6. B2 CIB. UA63. L6. B2 CIB. UA63. L6. B2 CIB. UA63. L6. B1 CIB. UA63. L6. B1 CIB. UA63. L8. B1 CIB. UA63. L8. B1 CIB. UA83. L8. B2 CIB. UA83. L8. B2 CIB. UA83. L8. B2 CIB. UA83. L8. B1 CIB. UA87. R8. B2 CIB. UA87. R8. B2 CIB. UA87. R8. B1 CIB. UA63. L6. B1 CIB. UA63. L6. B1 CIB. UA63. L6. B1 CIB. UA63. L6. B1 CIB. UA67. R6. B2 CIB. UA67. R6. B2	Index 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Source Name
21							

Sunday 21/3/2010

- 03:00 3:40 : Another ramp at 3.5 TeV performed
- Beam dump immediately at the end of the ramp RQTF12, RQTF23 and RQTF34 tripped
- 06:10 07:00 : Another ramp at 3.5 TeV
 - Tune feedback stopped on B2 at 2 TeV, left ON for B1
 - And finally stopped for B1 at 3.5 TeV
 - Performed orbit correction first pass rms < 0.2 mm
 - Coupling B2 reduced
 - Started to put back the tunes of B2 onto nominal
- 08:00 : Lost cryo (temperature sensor) and tripped triplet L5

Sunday 21/3/2010

- Re-establish 450 GeV
- Feed-forward tune feedback trims
- Re-establish 450 GeV beta beat corrections and level of beta beat
- Ramp to 3.5 TeV check beam parameters and correct including beta beat
- Protection device and collimator setting-up at 3.5 TeV
- Night shift: Damper setting up at 450 GeV