



Wednesday 21/4/2010

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Morning:

- Injecting again beam 1 and beam 2, correcting as required.
  - RF re-phasing done.
  - CO: Pierre Charrue : Restarted the BCT-Proxy on cs-ccr-cmw4. We will now study our log-files to understand what happened at 19h55 yesterday evening
  - Inject again both beams for ramp
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- squeeze of all IPs at once:

- From 4 m to 3.5 m : lost RQS.A78B2 circuit, and consequently a large fraction of B2 (left with  $5e9$  vs.  $2.3e10$ ) . Coupling problem which appeared with the incorporation from the end-of-ramp actual. Indeed, the function in the trim shows spikes which lead to  $U_{res}$  above threshold.

Stefano: trick:

- Coupling knobs trimmed back to their values before incorporation
- K functions reverted to the last values generated by Mike this morning
- Coupling knob manually trimmed to the good delta from the end-of-ramp.

More robust solution to be implemented.

- TCTs adjustment : in progress.

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# Wednesday 21/4/2010

**Trim Editor**

RBA: lhcop   LHC   OP   BP

**Beam Processes**

- \_NON\_MULTIPLEXED\_LHC
- CollimatorBP-450GeV\_V1@60\_[END]
- DISCRETE\_LHCRING\_INJ\_KICKER\_V1
- SQUEEZE\_3.5TeV\_IP1+IP5\_IP2+IP8\_FULL\_V1
- CollimatorBP-450GeV\_V1
- CollimatorBP-450GeV\_V1@0\_[START]
- CollimatorBP-450GeV\_V1@1
- CollimatorBP-450GeV\_V1@2
- CollimatorInjectionBP\_V1
- CollimatorInjectionBP\_V1@0\_[START]
- CollimatorInjectionBP\_V1@10
- DISCRETE\_COLL\_RECOVERY\_V1
- DISCRETE\_LHCRING\_INJ\_KICKER\_Clone\_V1

Show hidden

**Parameter selection - LHCRING**

| System           | Type Groups | Parameters                 |
|------------------|-------------|----------------------------|
| BEAM DUMP        | KNOB        | Filter: [?]                |
| BETA-BEATING     | K           | RPMB.A.RR57.RQS.A56B2/IREF |
| BETA-STAR        | I           | RPMB.A.RR57.RQS.R5B1/IREF  |
| BLM              | IREF        | RPMB.A.RR73.RQS.A67B1/IREF |
| BLM IQC REF      |             | RPMB.A.RR73.RQS.L7B2/IREF  |
| CHROMATICITY     |             | RPMB.A.RR77.RQS.A78B2/IREF |
| CHROMATICITY_REF |             | RPMB.A.RR77.RQS.R7B1/IREF  |
| COLLIMATORS      |             | RPMB.A.UA23.RQS.L2B1/IREF  |
| COUPLING         |             | RPMB.A.UA27.RQS.R2B2/IREF  |
| IP_ANGLE         |             | RPMB.A.UA43.RQS.L4B1/IREF  |
| IP_CROSSING      |             | RPMB.A.UA47.RQS.R4B2/IREF  |
| IP_OFFSET        |             |                            |

Select All   Select All   Select All   Show Field(s)

Setting part:  Value    Target    Correction   Trim History   Time base:  SuperCycle    Cycle/Beamprocess    Injection

Displayed Function: RPMB.A.RR17.RQS.R1B1/IREF, RPMB.A.RR17.RQS.R1B1/IREF@2010-04-21 10:01:18.412

**Legend**

- RPMB.A.RR17.RQS.R1B1/IREF
- RPMB.A.RR17.RQS.R1B1/IREF@2010-04-21 10:01:18.412

Trim   Abort Trim   Cancel Last Trim   Apply

Trim Expert Params

Graph   Table

# What's next?

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- ~17h: dump beams
  - 17h - 19h : ramping down and back to injection
  - 19h - 03:00 : damper commissioning -  $5e9$  /beams
  - 03:00 - 09:00 : Qualification of 3.5 TeV squeezed optics for protection.  $1e10$  /beams
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