Operations Manager Report

Arnd Meyer
Feb 14, 2002

- 5 stores
- Intentionally ended

Store		Initial Lum	Duration	$L_{delivered}$/nb	L_{live}/nb	Eff
965	Thu 2/07	9.6E10	14.5h	281.7	81.5	28.9%
967	Thu 2/07	10.4E10	10.4h	303.1	148.3	48.9%
969	Sat 2/09	8.8E10	13.7h	289.0	146.9	50.8%
971	Sun 2/10	11.6E10	12.6h	336.7	203.0	60.2%
973	Sun 2/10	10.0E10	12.3h	287.9	214.9	74.6%
				1498.4	794.6	53.0%
(990	Thu 2/14	5.9E10)				

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- Thursday Store 965 problems bringing up Solenoid
- Store 967 TEL broken
  - Fixed in short access Friday; much of the store used for TSI studies to fix new firmware (handle L1DONE properly)
- Friday: bad MI quad (due to nearby water leak); replaced during much of the day
  - Supervised access: swapped FIB, fixed CMP oscillation, fixed TDC timing problem
- Friday/Saturday switch to new trigger table
  - Prescales on hadronic B trigger removed
- Saturday/Sunday
  - Store 969 lost ~3h due to broken L2 fiber ISOclique → ISOlist
  - Otherwise smooth data taking
- Monday morning short access to pull toroids out. Will go back in after next store
- Monday Reverse switching fault at low beta; stacking; MI52 kicker had to be replaced → no luminosity
- Tueday/Wednesday beam studies
  - Roman pot background and timing studies with pbar and p only stores
  - A lot of work on trigger systems (new TS firmware, L2dec, SVT, ReCES, ...)
- Thursday morning Store 990 - delayed and weak; problems with transfer MI to pbar for tuneup

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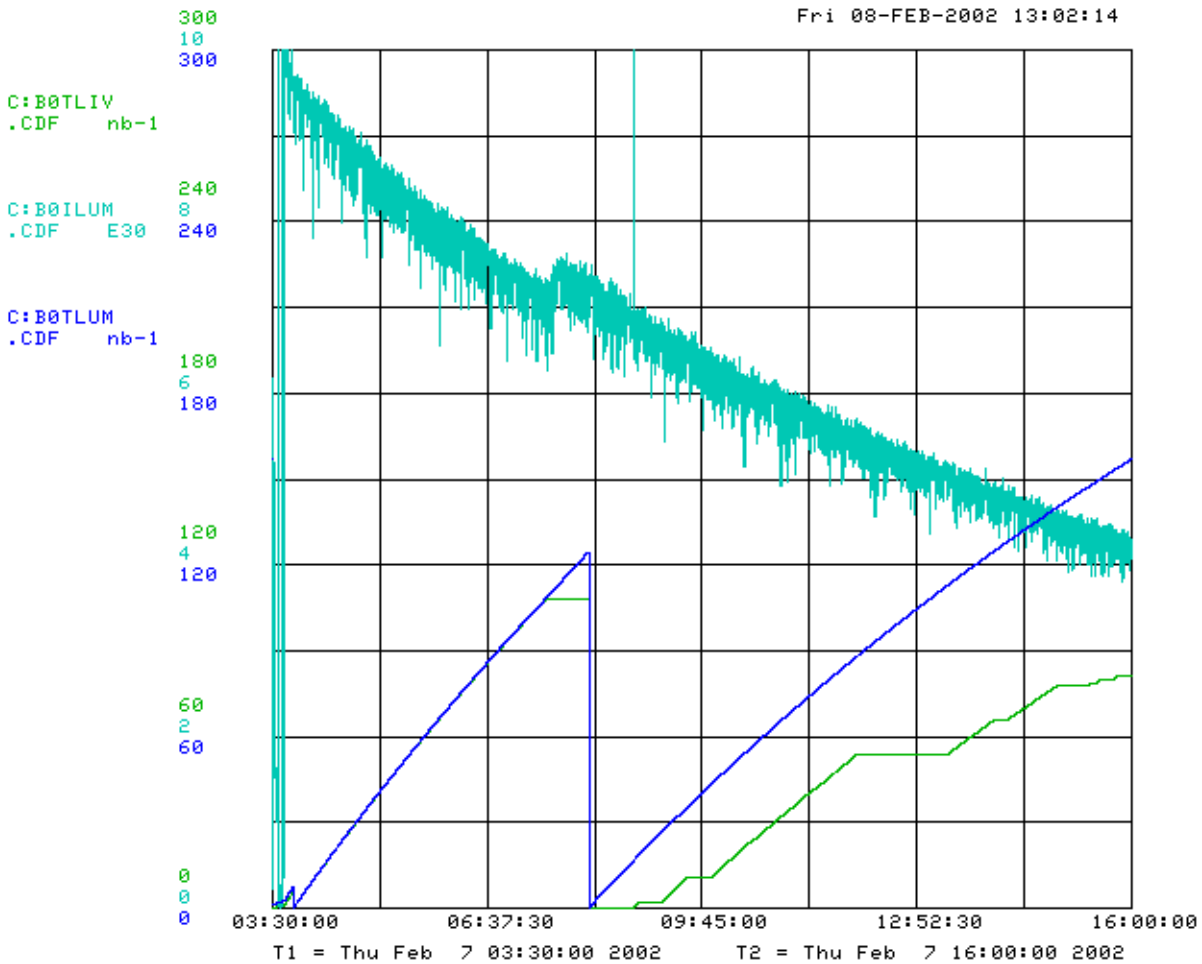
- Store 965
- "Hipot failed twice, trips at 360V and 44.1μA/8.2MOhms. We found an orange water hose in the bus bar switch cabinet that is leaking badly."



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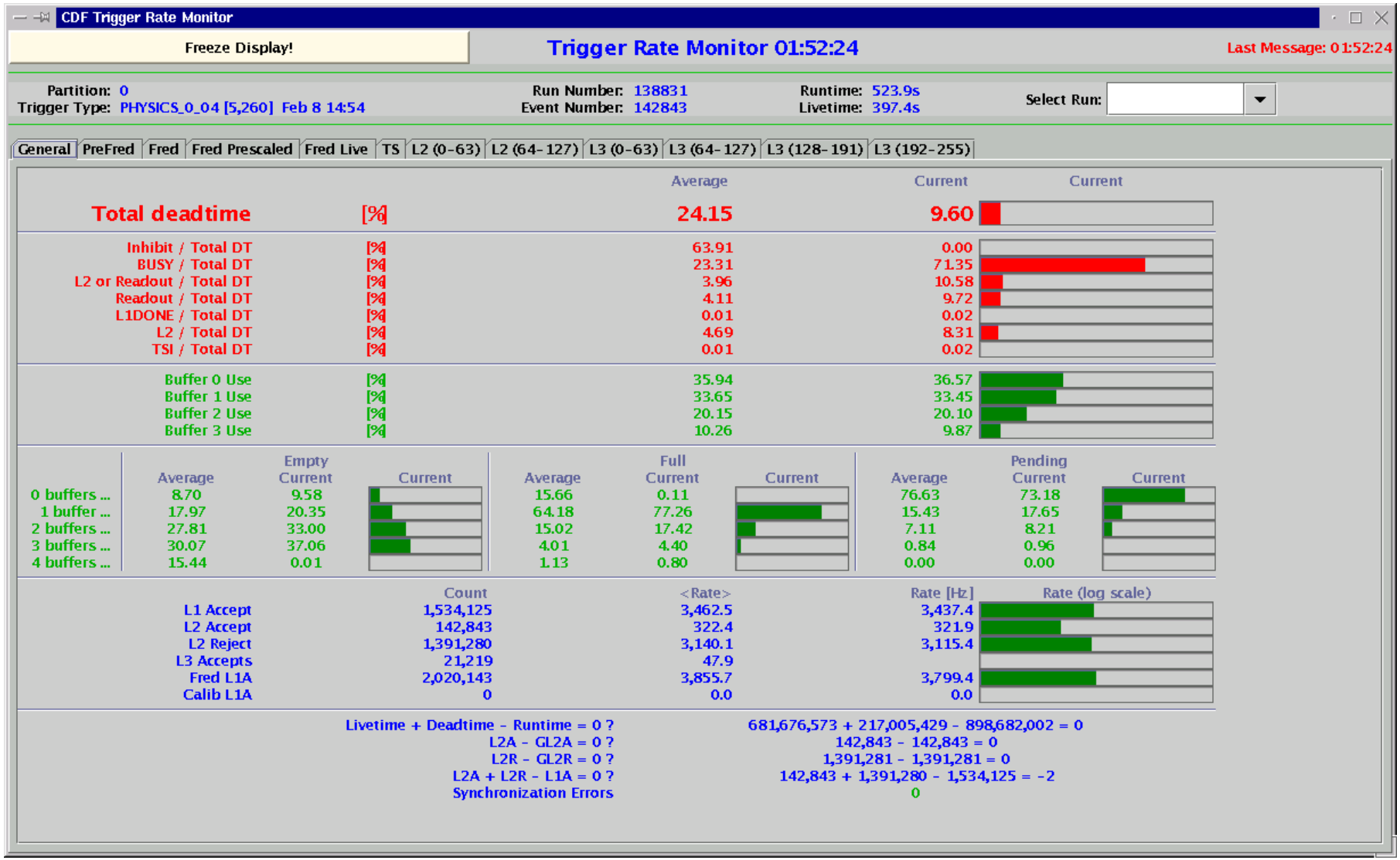
- Store 971/3: ~ 10% deadtime at $1.0*10^{31} cm^{-2} s^{-1}$
- New trigger table under development to create some headroom



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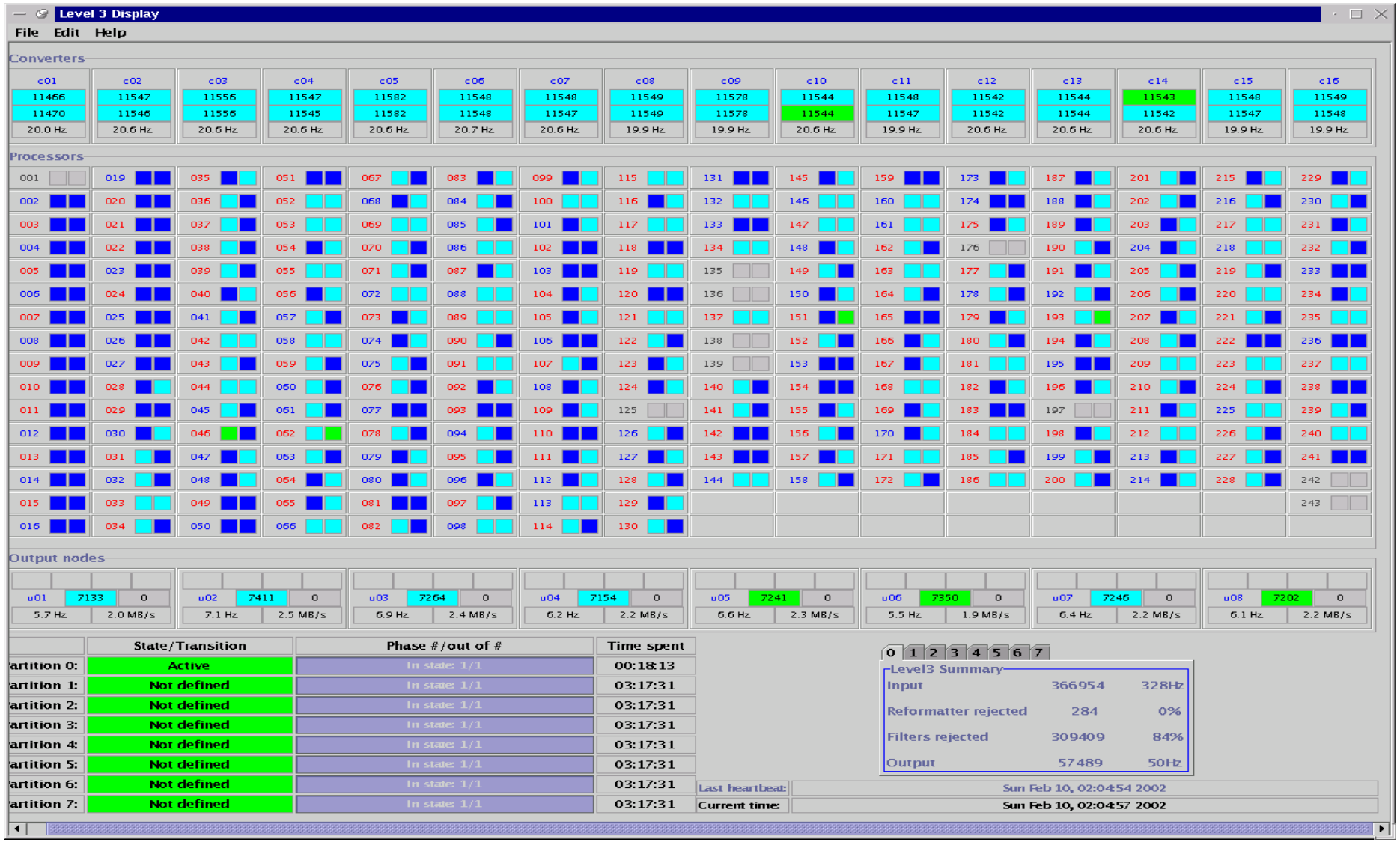
- Mostly BUSY Level 3
- Level 2 also close to maximum



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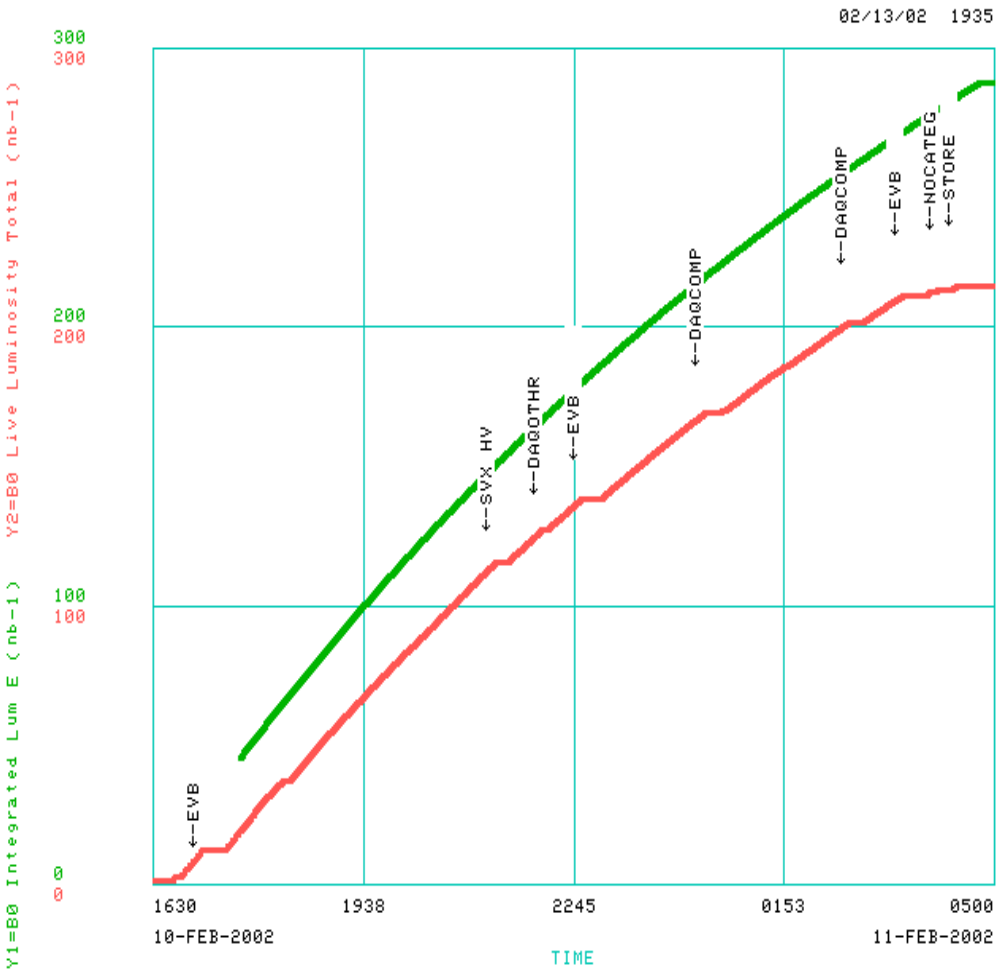
- Store 973
- Main sources of downtime
  - EVB ("cannot reset VRB" - have to powercycle crate and clean-up EVB)
  - Ramping up HV, SVX trip, Silicon calibration
  - SVT DONE timouts (crate hangs)
  - DAQ deadtime



Operations Manager Report

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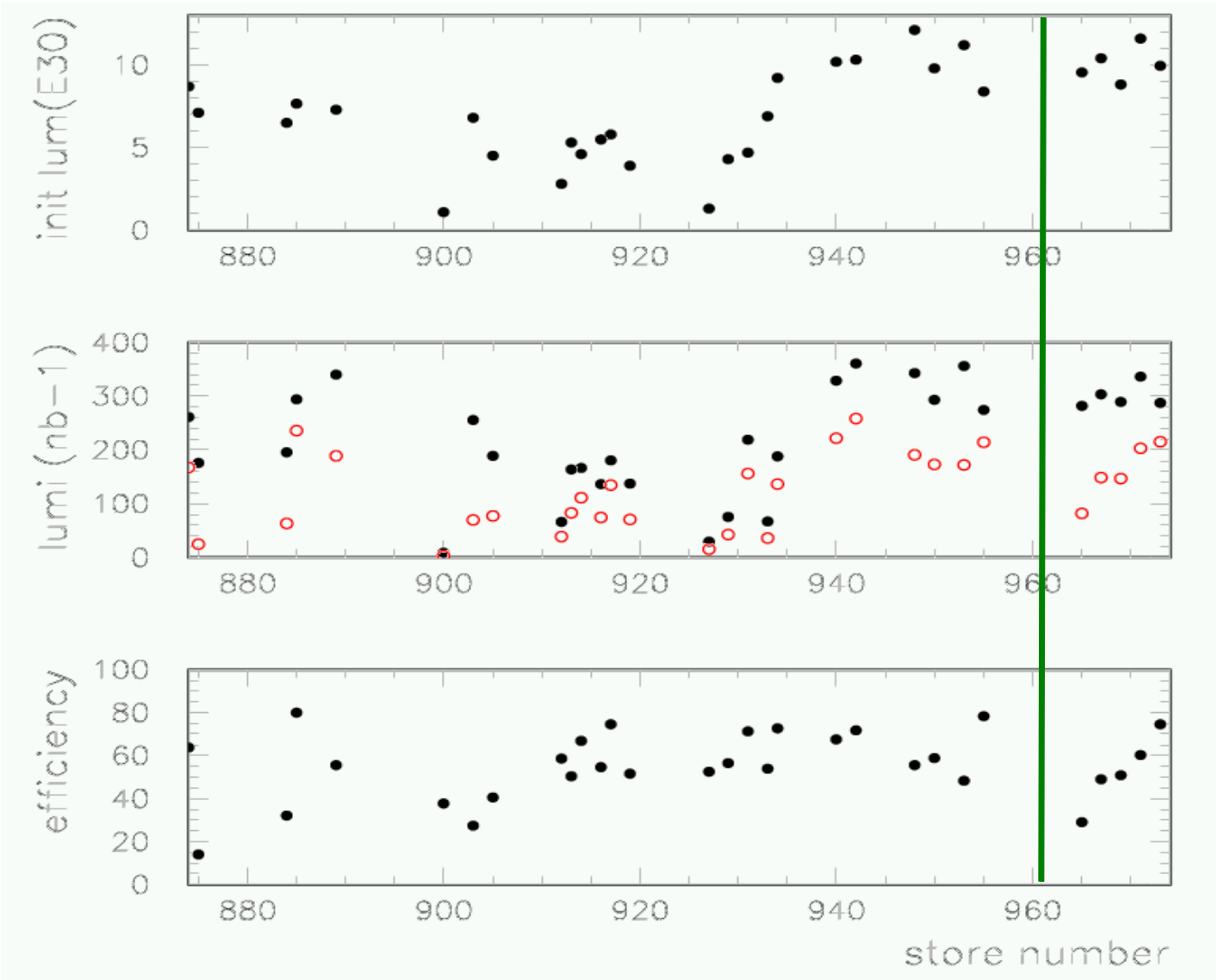

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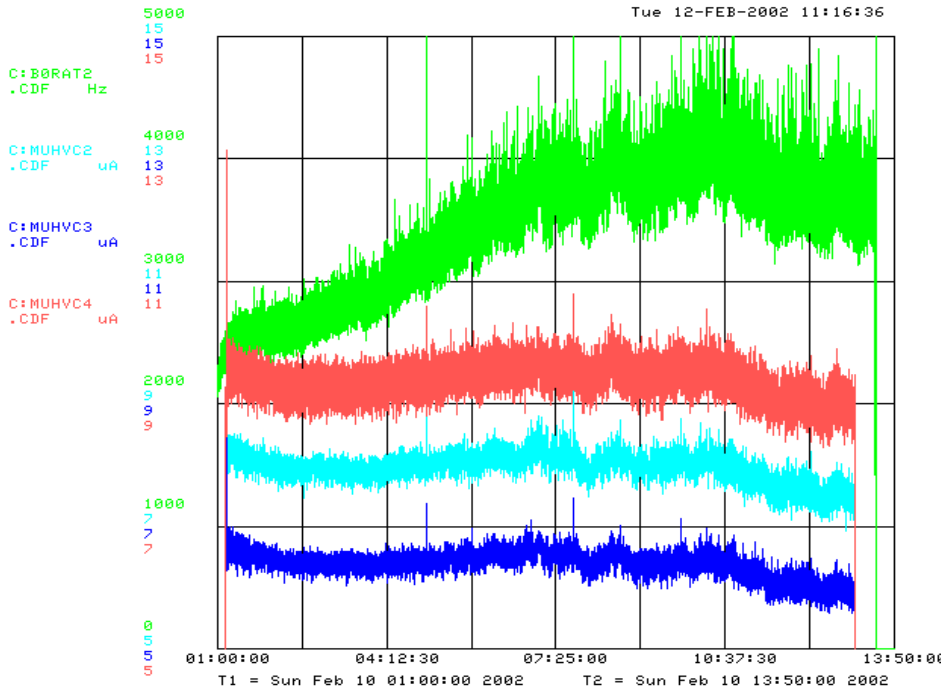
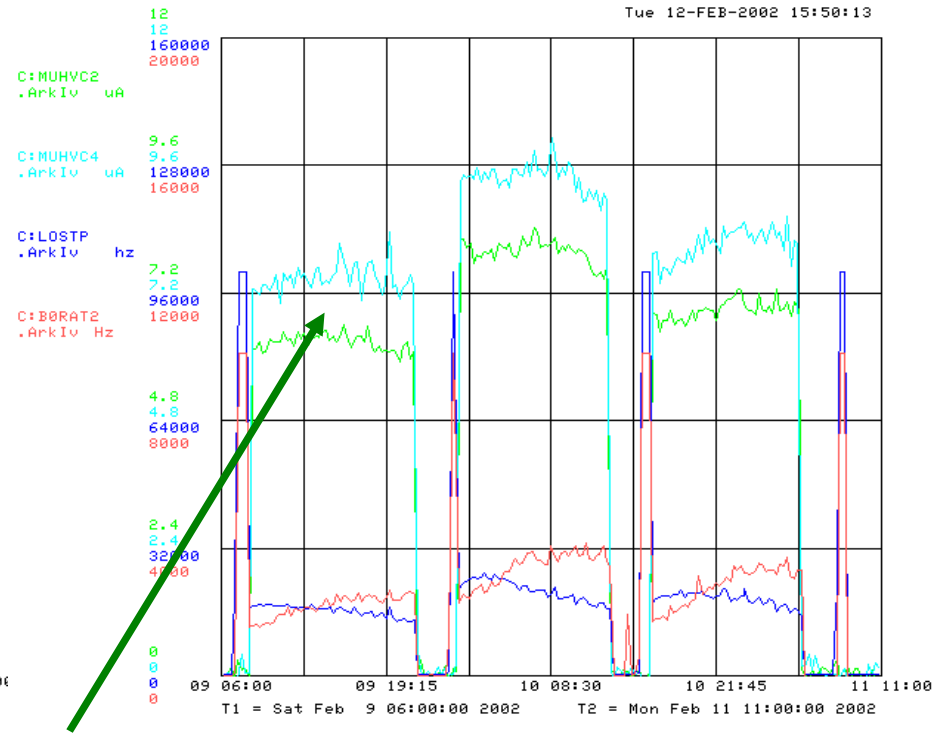
- Losses and Muon currents - back to the beginning?
- Since Friday, new CMP HV operating conditions: raised limit 8μA → 15μA
- Allowed us to take data with an almost complete detector





Currents correlated with initial luminosity?