# Calorimeter Operations: overview > 1/1/08

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# I) Introduction: Detector & goalII) Operations:

Stand. operations, special runs, interventions, documentation, new features, people

III) Summary

#### I) Introduction: detector



1) Introduction: goal

\*best resolution during all times: (few failures, stable) (fast analysis&repair)

- Op. m e t i n g
- Sunday, 90%:
  - Store 6204: 2 minutes to kill CAL tower (8/4/1/1)

#### Significant Events

- Monday, 89%:
  - 14 minutes for Muon Crate Ctrl and Monitoring GUI glitch
  - CA to fix CAL hot tower (8/4/1/1)
  - Online switch PS replacement

#### II) Operations: standard operations



+: archiver (V, I, T ...) ,dq\_calo/monitor (system perf. : ADC, L1 data)

II) Operations: special runs

- \* pedestals: no beam, B- field on! (real events) : 1/day, shifter
- \* electr. calibr. (NLC/ramping): (pulser) : after repair, exp.
- \* ICD: LED & pulser : 2/week, shifter
- \* triple timing: (real events): 2/year, exp.

#### II) Operations: interventions

- replacing 'tower electronics' : about 1/week : expt.
- replacing BLS boards
- replacing ADC cards
- replacing analog drivers
- replacing BLS fan-outs
- measuring ICD-HV

- : < 1/month : expt.
- : about 1/6 months: expt.
- : new, 3 recently : expt.
- : new, 1 recently : expt.
- : 1/month : expt.
- replacing BLS power suppl. : 1/4 months
- replacing preamp power supp: 1/3 months
- : electr. crew

: electr. crew

## II) Operations: documentation

- improved/new:
- Web instructions/ doc.
- log-book
- calop meetings w/written summaries
- tutorial (6/5/08)
- Wiki pages
- talks at coll. meetings & conferences

#### II) Operations: new/ improved features

- earlier shift scheduling
- reorg. calop meetings (L1 cal, time, summaries..), expt. meetings
- improved Web instructions (better training of shifter&experts)
- modif. to log-book under way.. (better error analysis)
- modif./new procedures: ICD cal.&HV, peds (B > 0), modif. of dq\_monitor (Fabrice):very useful (Nils), longterm stab. via archiver (to be incorporated), adjusted alarms: better & faster analysis of problems
- new timing of crate 2 : less errors (Patrice, Emilien)
- Wiki page : better training for experts, better info

## II) Operations: people

 experts (1 week of prim. pager/ < 1.5 months + few shifts): Edgar Carrera (test stand with Dan Duggan)
 Abhinav Dubey (ICD + test stand)
 W.G. (coord.)
 Nils Hueske (noise)

Trang Hoang (peds., archiver)

Bjoern Penning (ICD calibration)

- Dean Schamberger (HW&trigger), Jadranka Sekaric: DQonl.
- students: Betty Calpas (triple t.), Emilien Chapon (dq-calo),
  Heather Brown (ICD HW), 1 intern (GUIs) + Shifters

#### dynamical interactions:



III) Summary

So far it works: little down-time (> 90% eff.) and about more than 99.8 % of all channels work well, are quickly fixed due to the dedicated work of all involved!

currently and previously!

