



Collision Commissioning Status



Gerrit van Nieuwenhuizen
PHOBOS BiWeekly meeting
BNL, January 14, 2005

Silicon

OK, meaning that pedestals with bias on still reproduce last years pedestals (reference from January 2004) **even after about a week of collisions**

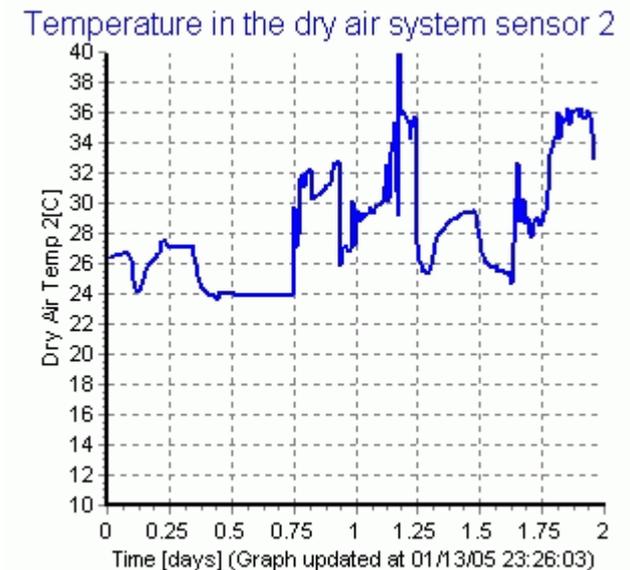
Enclosure temperature and humidity monitoring is better after connections in tunnel were fixed
Enclosure temperature still flaky

No. Latchups acceptable

Mysterious shutdown of Oct/Vertex bias supply while running

First dead channel map made
MIP signals need to be looked at, i.e. calibration

.....See Ed's talk



Paddles, T0's, Cerenkovs, ZDC's

Amount of malfunctioning FastBus units is alarming

The amount of problems found, caused **AND FIXED** is mind boggling (as is the amount of Emails flying around)

We seem to have reached working status now

Commissioned?

.....see talk of Trigger Group

Great job done by Dave, Joe, Ian, Vasu, Edmundo, Richard, Aneta, Frank and Andrei

Magnet

Working OK

Except for yesterday evening when a powersupply was replaced (fixed in less than 1 hour!)

Leak in cooling tower fixed

Magnet assumed to be the full responsibility of RHIC

Waiting for permission to change polarity at will

TOF

Basically OK as long as the FastBus modules hold out

13 'orphan' TOF channels connected to Bertan HV supplies

- very sensitive to current trips, will shut off HV
- busy installing trip monitor for shift crew

Manpower remains a cause for concern

SpecTrig

VME-ADC's connected and gated

No problem with HV on

Need to run μ DAQ to check PMT gains with LED

On-site presence has been minimal

Do we need it with a $> 500\text{Hz}$ DAQ?

OFF UNTIL FURTHER NOTICE (removed checklist)

PCAL

VME-ADC's all cabled up

One ADC (adc2) flaky

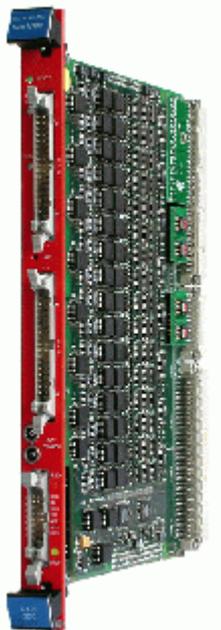
Replaced by SpecTrig ADC

2 new ADC will be ordered

Taking cosmics with normal DAQ now works

'Channel shift' found in analysis and fixed in
TphDAQFile

4 modules on both sides which are closest to the
beamline had their HV lowered (no filters!)



SpeCal

Old HV still performs the same as last year
stable at 'magic' voltages

About a week of uDAQ cosmics
no time to analyze yet

No time to look at real data yet

Need forward tracking for calibration (angle dependence)

Manpower is a problem

DAQ

DAQ runs 90% of the time, some smaller glitches

Speed limited by MDC busy
maybe possible to tweak a bit

Possible to speed up FastBus by simultaneous data
taking and readout

DAQ GUI operational although less features

DAQ Spy crashing frequently
currently patched by restarting after 10 seconds
event inactivity

PhTimes cables made but not hooked up, lot of work
still ahead, not clear about schedule

.....Andrei's Talk

Online/Datamover/DV

Distributor-DAQSpy tandem working

DAQSpy still crashing, fix partially effective
part cause of Si pedestals not being run

Online monitoring seems to be working for all

DV operational, looks like a lot of work for
Marguerite and Peter

.....Marguerite's talk



Press WHITE arrow above to start.
Press STOP button below to stop.



Central Alarmer V1.4

LabView Clients

Online Clients

Other Clients

STOP

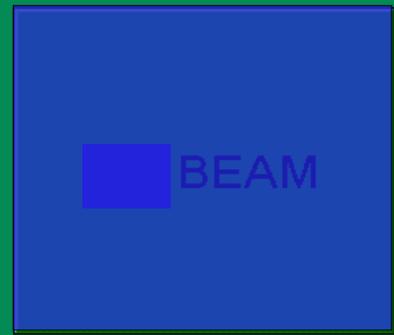
PAUSE ALL

TimeStamp
11/17/04
04:09:30
PM

SiMon PhOnI3 PAUSE INFO	OnILatchup1 PhOnI3 PAUSE INFO	OnIToF PhOnI3 PAUSE INFO	VertexDisplay PAUSE INFO	TRGCrateMon PlasMon (Temporarily) PAUSE INFO
RadMon PAUSE INFO	OnILatchup2 PhOnI3 PAUSE INFO	OnIROCDB PhOnI3 PAUSE INFO	EvtDistrib PhOnI1 PAUSE INFO	PAUSE INFO
PlasMon PAUSE INFO	OnIHeartbeat PhOnI3 PAUSE INFO	UPSMon PAUSE INFO	TriggerDisplay PhOnI1 PAUSE INFO	PCALMon1 PhOnI1 PAUSE INFO
MagMon PAUSE INFO	OnITrigger PhOnI3 PAUSE INFO	SpeCalMon PAUSE INFO	SiCalib Phast PAUSE INFO	PAUSE INFO

- Initializing and waiting for client to connect
- Connection broken or timed out, waiting for client to reconnect
- OK, client running and no errors reported
- Client has reported an error condition, hit info to learn more
- Port reader suspended, hit pause to continue
- Port reader received an unrecognized string from client
- Turns RED to indicate which client is setting off an alarm

Is There Beam?
RadMon
PAUSE INFO



To Do

Officially commission system

Get CH operations shift ready

- Slow controls practically done
- Documentation practically done
- Crew shifts seem to be able to handle most situations

