

# Commissioning Status

Gerrit van Nieuwenhuizen  
PHOBOS Collaboration meeting  
BNL, December 10, 2004

# Weekly Dress Rehearsals

RCF: 5480  
HP: 4660  
Tunnel:  
Trig Lab

PETER 4370  
411 917 443 7417  
HOTEL C 8000 77  
(270) 749-4320

Trigger Onsite 11/17/04

Si-expert Rachel

DRESS REHEARSAL NOV 10

- ✓ Switch on Si Cooling
- ✓ Spotcheck Si System (No. 10/11/04)
- ✓ Startup DAQ/DNMC/Distr.
- ✓ Switch on trigger counters
- ✓ Switch on calorimeters
- ✓ Switch off the lights
- ✓ Switch on Spectrig
- ✓ Switch on TOF
- ✓ Switch on Silicon
- ✓ Take Silicon pedestals
- ✓ Switch on Silicon bias
- ✓ Take Silicon pedestals
- ✓ Take Allbeamn data
- ✓ Send to DV
- ✓ Silicon OFF
- ✓ Spectrig OFF
- ✓ lights on in tunnel
- ✓ FB pads & time cal.
- debug DAQ GUI etc
- alarmer
- docs

Generators  
gone  
on. we count

Trigger  
→ ABC Cap Counter  
→ ABC code  
→ DECU Smart?

Si-expert Rachel  
→ send to FB!

11/17/2004 16:18

# Silicon

OK, meaning that pedestals with bias on still reproduce last years pedestals (reference from January 2004)

The pedestal acquisition process has been optimized, DAQSpy and Distributor tuned to get pedestals fast

Flow meter for frame 6 in negative spectrometer is flaky  
flow is OK, masked out in SiMon,  
Online temperature check in the making

Enclosure temperature and humidity monitoring is flaky  
adjusted all affected humidity thresholds  
need to check connections etc.

.....Rachid's Talk

Manpower is not an issue (Rachid/Gerrit, Ed, Iouri)

# Paddles, T0's, Cerenkovs, ZDC's

Cerenkovs are gone, not enough HV channels

Online Trigger Client has been changed accordingly

Double-peaking seen in Paddle pedestals

Caused by malfunctioning FastBus ADC's, replaced

Need spare ADC's!

.....Aurei's Talk

Waiting for new results from Paddles/T0's/ZDC's

.....Edmundo's Talk

Manpower should not be an issue now that the start of  
RHIC operations has been delayed again

# Magnet

OK, energized already once

.....Robert's Talk

Do we want to fire it up before RHIC gets operational again?

# TOF

Recabled remaining HV mainframe

- PlasMon Slow Controls VI has been modified

Last 12 'orphan' TOF channel have been connected to Bertran HV supplies

- needs shift documentation

Took FastBus Pedestal and Time Calibrator Runs

Waiting for results from yesterdays Dry Run

.....Frank's Talk

Manpower is a problem

# SpecTrig

VME-ADC's connected and gated

No problem with HV on

Need to run  $\mu$ DAQ to check PMT gains with LED

Manpower should not be a problem, but on-site presence  
has been minimal

# PCAL

VME-ADC's all cabled up

Cosmic gating was checked

Took about a week worth of cosmics by now

One ADC (adc2) stopped functioning for a while

Could have been a cable problem

Trying to get spare ADC from MSU

.....George's Talk

Manpower should not be a problem, but on-site presence  
has been minimal

# SpeCal

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

VME-ADC's cabled up

Cosmic gating has been checked (shared with PCal)

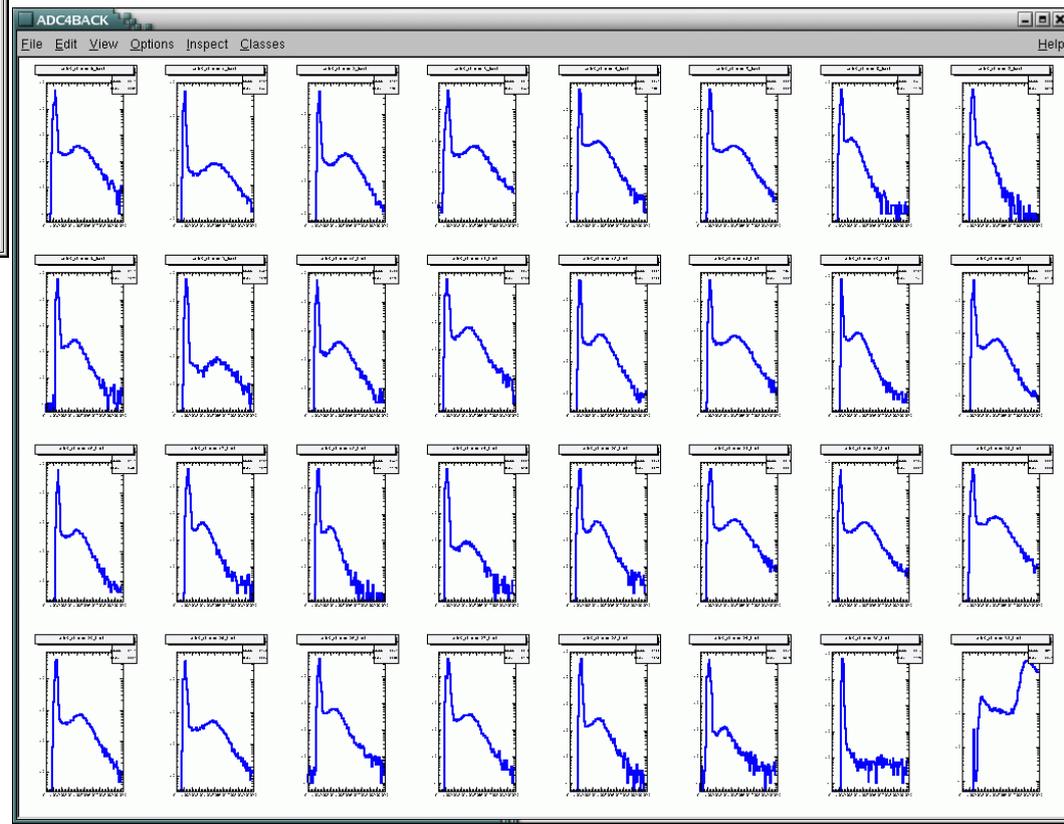
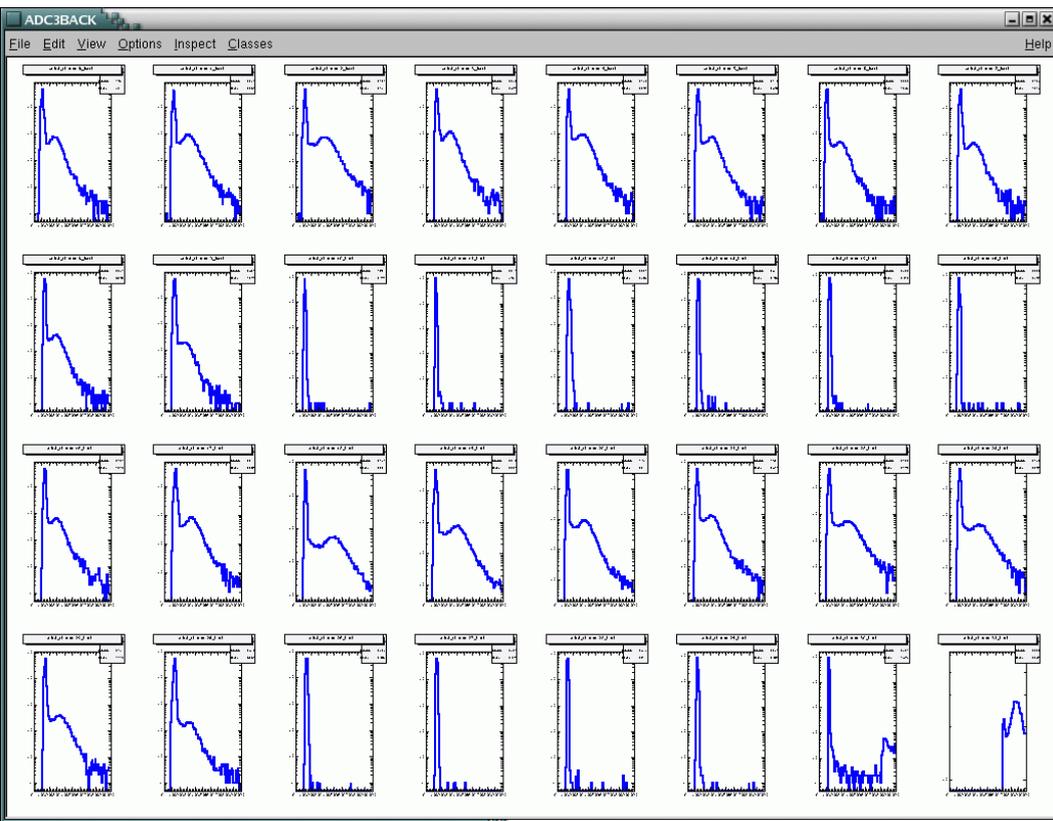
About a week of uDAQ cosmics (together with PCAL)

First look at cosmics seems to be OK, have to compare  
the currently available data with last years

Need forward tracking for calibration (angle dependence)

Manpower is a problem (calibration)

# SpeCal cosmics



# DAQ

DAQ runs great upto 400 Hz!!!

Above 400 Hz investigations postponed to consolidate current situation, ie making it shift ready

400 ---> 500 Hz: Solve Silicon errors

500 ---> 700 Hz: FastBus multievent buffering

DAQ GUI operational although less features

DAQ Spy crashing frequently

PhTimes needs to be cabled up and lot of work

.....Andrei's Talk

# Online/Datamover/DV

Distributor-DAQSpy tandem working  
DAQSpy crashing

Multiforking DM is working

Waiting for information about DV

Online monitoring seems to be working for almost all  
Trigger client needs new references (new ADC's)  
and doesn't work for non-AllBeam runs

.....Burt'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

NO BEAM

# To do: Dress Rehearsals

Officially commission system

- persons responsible need to sign off backed up by proof of functioning

Get CH operations shift ready

- Slow controls
- Documentation

We have until January

Weekly Dress Rehearsals make sure the system doesn't wander off into some funny state and finds problems rather quickly

-----> **Big Success**

My Guess: if we would have to start taking data 1 week from now we would be ready in time