

PHENIX Preparations for Run 11

John Haggerty

Brookhaven National Laboratory

October 20, 2010

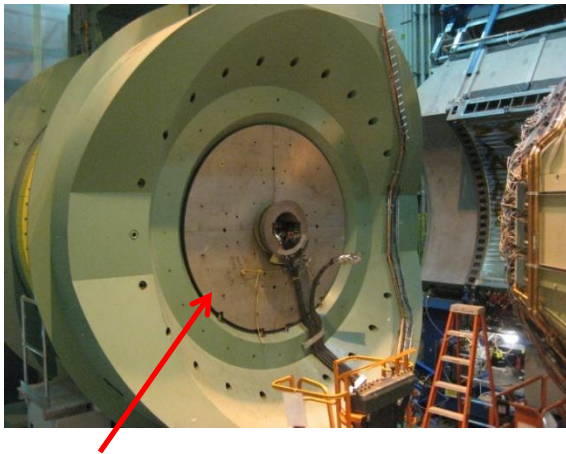


New For Run 11

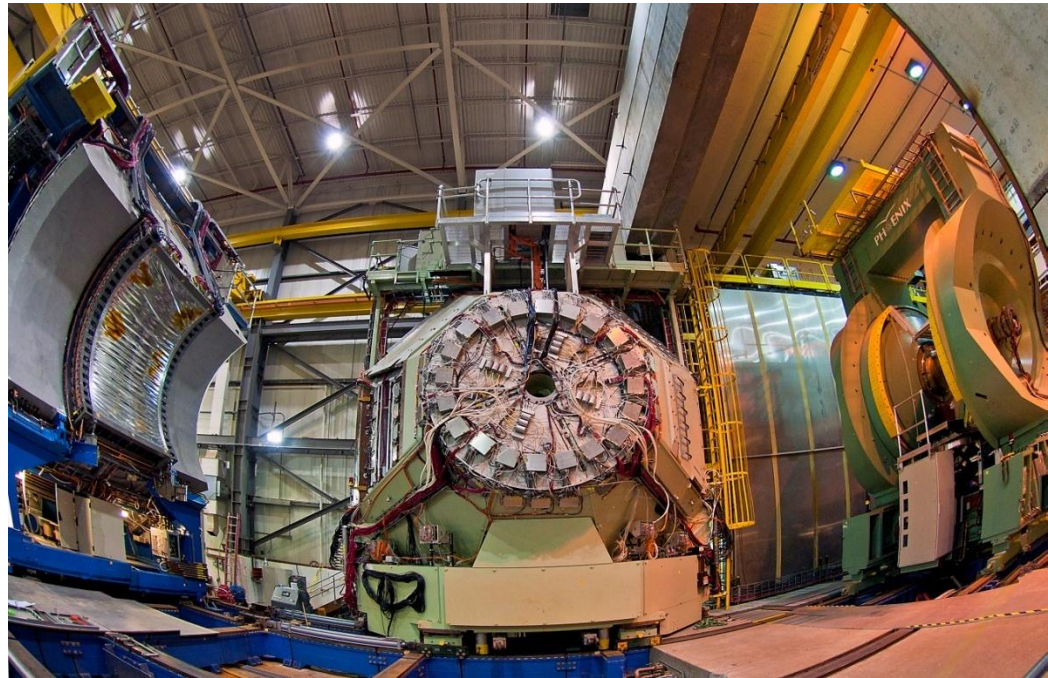
- Retired detectors
 - HBD
 - RXNP
 - TEC
 - FCAL
- New detectors
 - Barrel VTXS (strips)
 - VTXP(pixels)
 - RPC3.N
 - RPC3.S
- New NEG coated 43 mm diameter Be beam pipe
- Additional 36 cm (stainless) steel shielding north and south
- Second generation DAQ components for VTX readout
 - FORCE10 switch in Event Builder

A lot was changed...

- For the beampipe installation, we had to uncable and move
 - East Carriage
 - Central Magnet
 - South Muon Tracker



Steel absorber



Current status

- RPC3 installation complete north and south
- North and south absorber installation complete
- Beampipe installation almost complete; bakeout can begin when assembly complete
- VTX assembly nearly complete, installation in IR can begin after bakeout complete
- Work started this week on restoring power and cabling for South Muon Tracker and Central Magnet

Restoring PHENIX

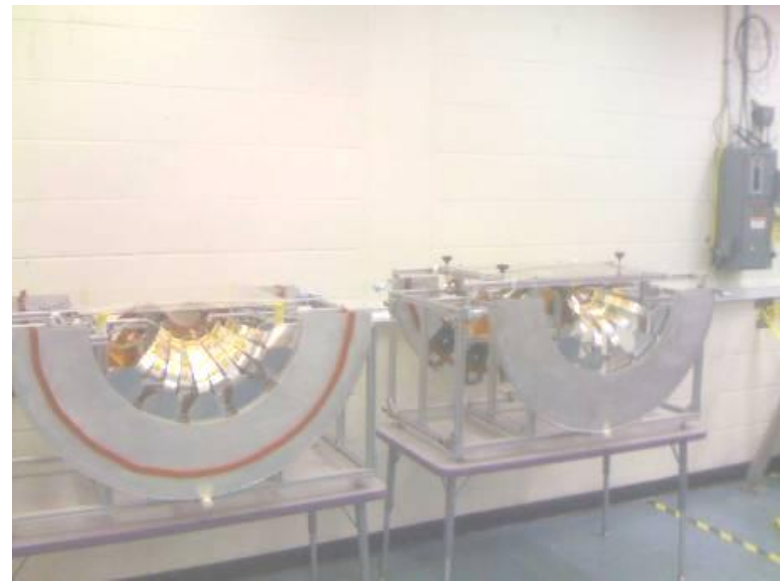
- Restore power and data fibers to Central Magnet and South Muon Tracker; restore and recable BB and MPC
- VTX requires manlift access for some of the cabling, after that East Carriage can roll in
- East Carriage roll-in, reconnect no sooner than Nov 8
- Blue sheet/pink sheet checkout follows roll-in, detector startup and final repairs

Detector startup

- First task is to reestablish existing detectors, particularly those that have been moved for the first time in many years
- Then establish new MUTRIG including RPC3 for 500 GeV run; we should be able to take advantage of cosmic ray running during cooldown and beam tuning
- VTX initially in open configuration, commissioning will involve first operation of the chiller, LV power supplies, bias supplies, FEM, and new DAQ components (DCM II)
- VTX commissioning and integration into DAQ will occur during the pp run



RPC3



VTX



VTX LV



VTX chillers

October 20, 2010

Is PHENIX ready for December 1 cooldown?

- There is a lot left to do, but an amazing amount of work has been accomplished (lots of help and cooperation with CAD—thanks!)
- In principle enough time to accomplish everything
- No schedule contingency
- We would like to defer the start date decision until November 1 when we'll have a clearer picture of how the VTX installation is proceeding