

PHENIX WEEKLY PLANNING



April 10, 2014
Don Lynch

This Week

HERNIMZHUUKL SCALPUS
TROPOK
NON

- Run 14 Continues
- Access last Friday: replaced Teflon tubes with Stainless → FVTX dropouts disappeared
- No access planned for this week, next access 4/16
- Plan for 2014 Shutdown
- Tech Support for Run 14 as required
- Support for sPHENIX efforts as required



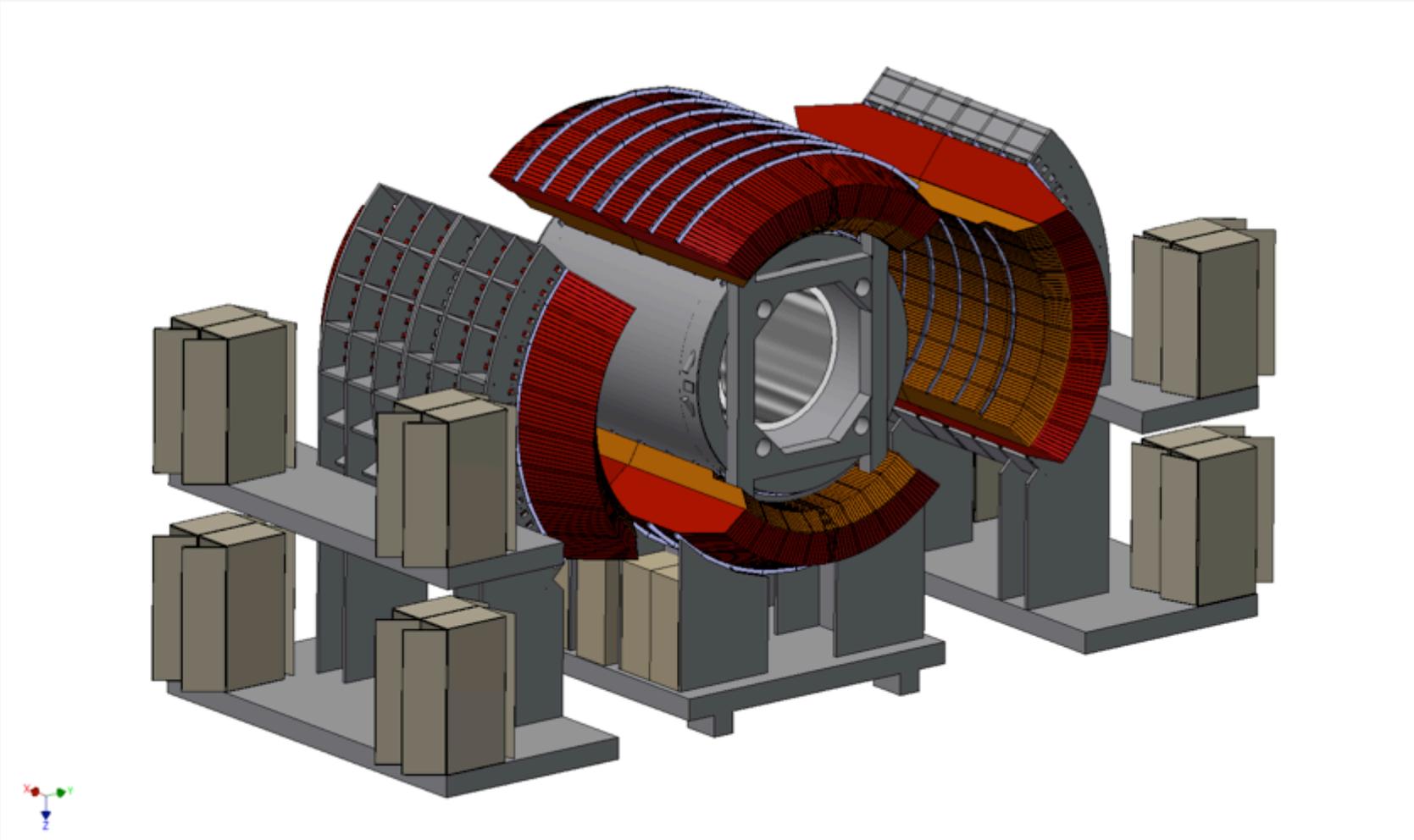
4/10/2014

Next Week

- Run 14 Continues
- Wednesday 4/16 access:
 - VTX/FVTX adjustments?
 - MPC-Ex tweaking (access to FEMs not required)
 - Other requests?
- Plan for 2014 Shutdown
- Tech Support for Run 14 as required
- Support for sPHENIX efforts as required

sPHENIX "Outie" Concept

PHENIX
PROJECT
REPORT
NO. 14

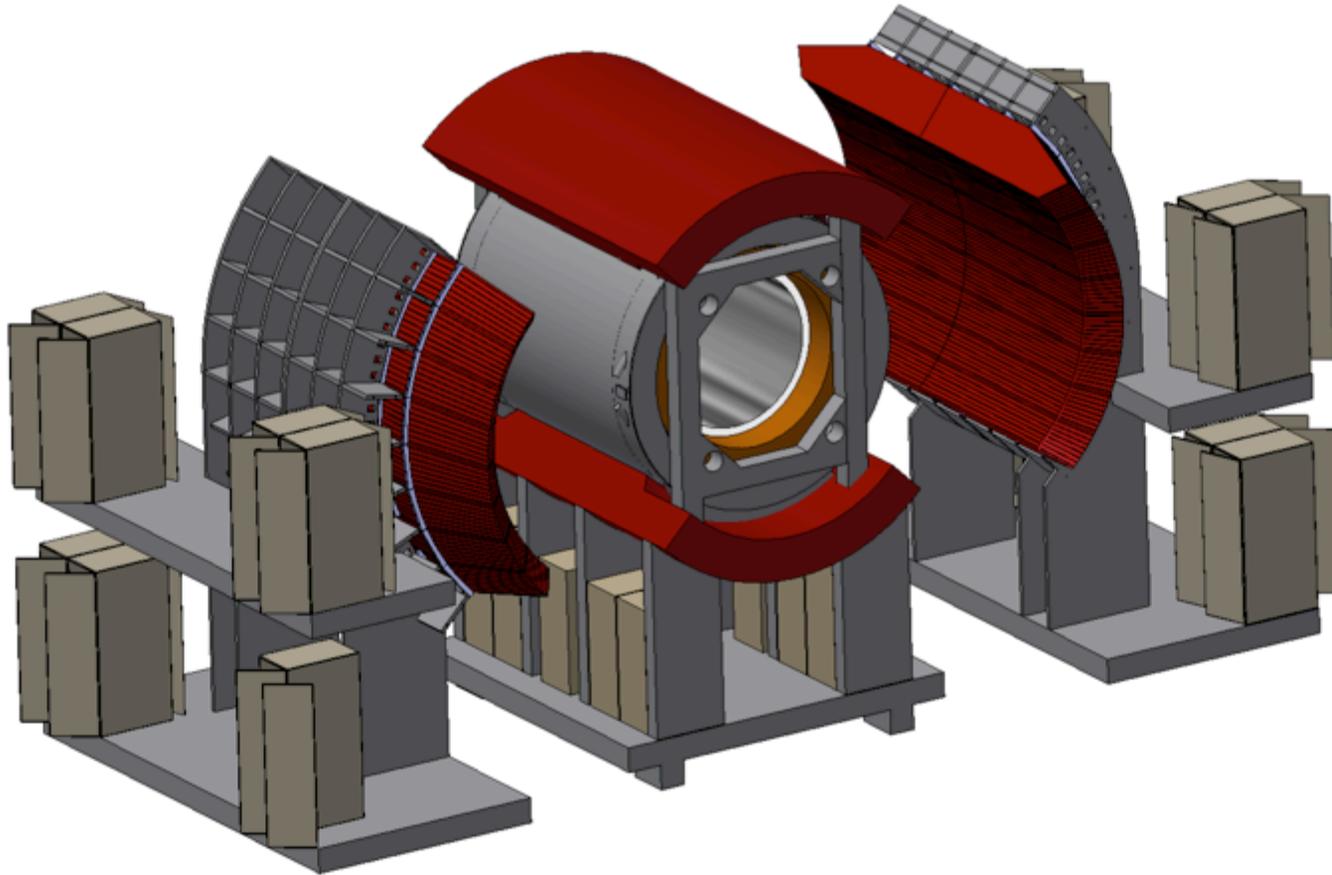


This is the design we will continue to pursue until if and when a final decision directs us to the "innie" option

April 10, 2014

sPHENIX Mechanical Design

sPHENIX "Innie" Concept



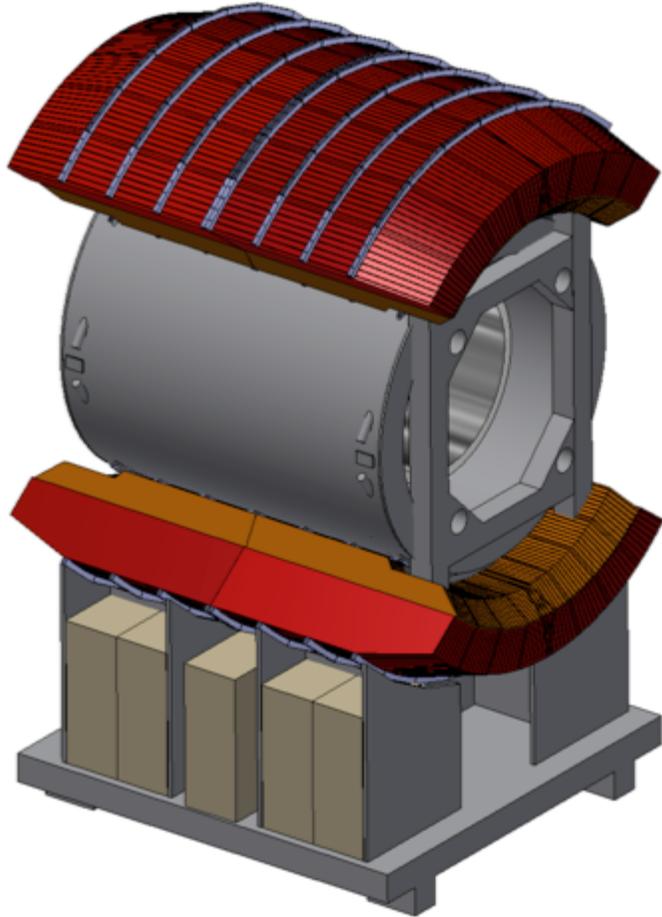
Mechanically, the "innie" option is smaller, lighter and simpler, but more congested inside the magnet. If the Physics tradeoff studies determine that this option is preferable, then we will adapt the "Outie" design as necessary.

April 10, 2014

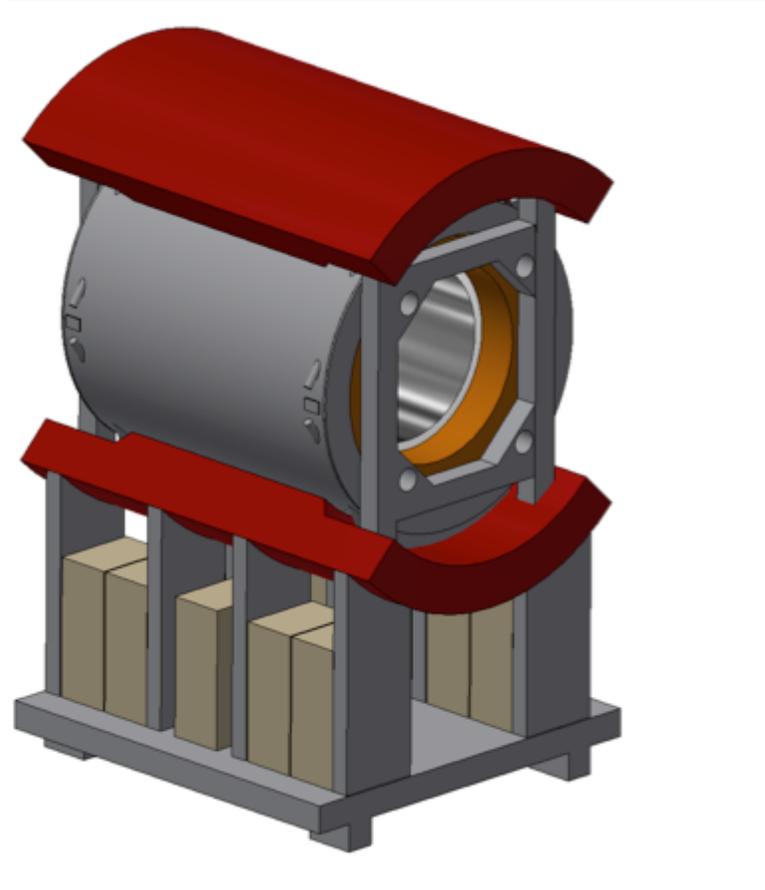
sPHENIX Mechanical
Design

HCal Central Pedestal

PHENIX PROJECT NUMBER 4-10-14



V1 "Outie"

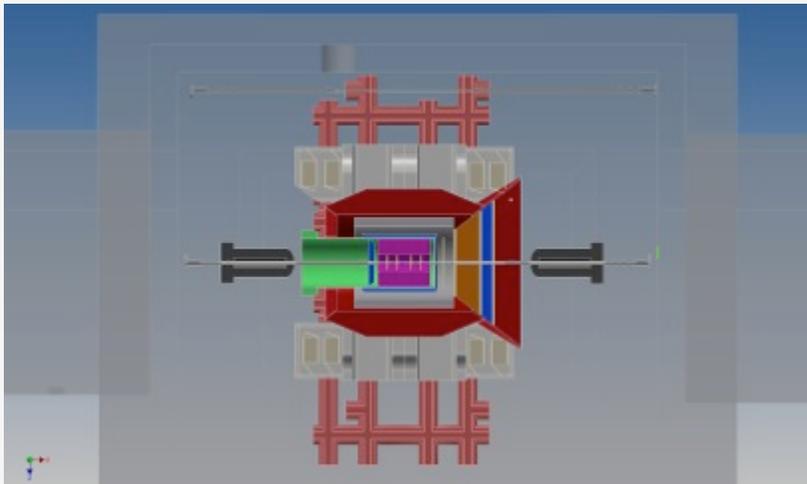
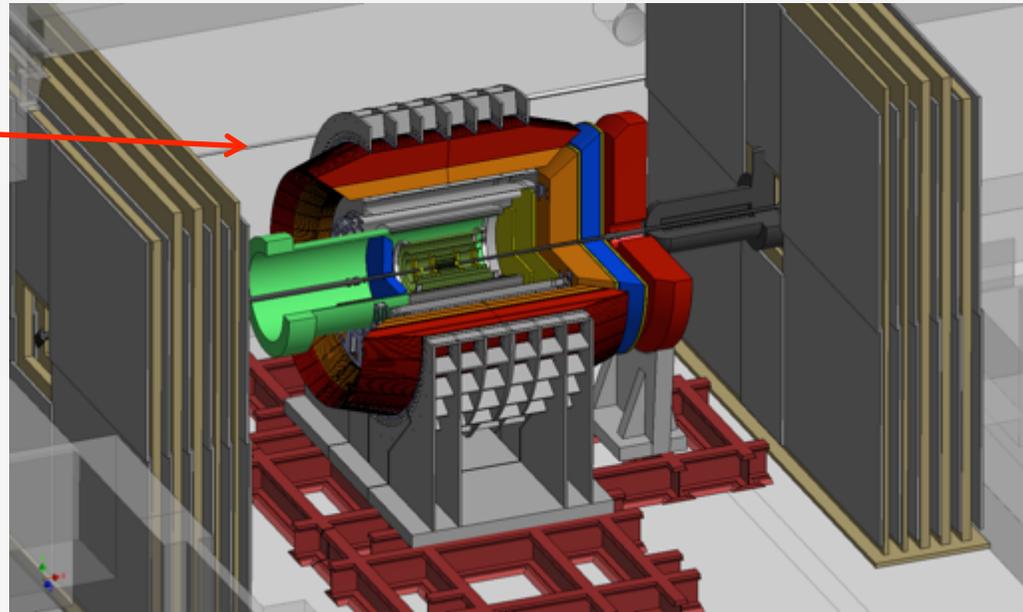


V2 "Innie"

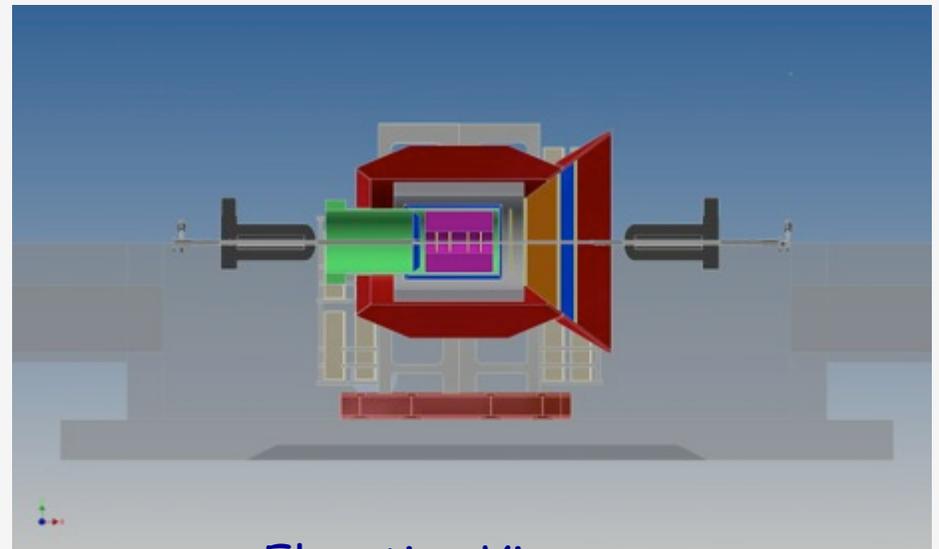
April 10, 2014

2ft high x 1 ft wide clearance needed for e-ring components

ePHENIX



Plan View



Elevation View

4/10/2014

2014 planned Technical Support & 2014 Shutdown

PHENIX
 SUPPORT
 NORTH

Support for run 14	2/3-6/30/2014
Support for sPHENIX prototype tests at FermiLab	1/21-2/25/2014
Procure & Fabricate parts for MPC-Ex North and South	1/1/2014-6/30/2014
Assemble & test MPC-Ex South, ready for installation	3/1-7/1/2014
End of Run Party	7/11/14?
Assemble & test MPC-Ex North, ready for installation	7/1-9/25/2014
Start of Shutdown Tasks (purge flammable gas, disassemble and stow shield wall, remove collars, move EC to AH, Move MMS south, etc.)	7/14 - 7/25/2014
Remove MMS east vertical lampshade	7/28-7/30/2014
Troubleshoot intermittent water leak in MMS	7/30- 8/8/2014
Other Maint. In MMS	TBD
Reinstall MMS east vertical lampshade	TBD
Summer Sunday prep AH, tours and restore AH	7/30-8/15/2014
Install scaffolding in Sta 1 South	7/28/2014
Remove MPC-Ex prototype, Install new MPC-Ex South	7/28-8/22/2014
Maint. & Repairs for MPC South, BBC South, RPC1 South, MuTr sta 1 South, as necessary	7/28-8/22/2014
Remove scaffolding from sta 1 south, Move CM South	8/25/2014
Install scaffolding in Sta 1 North	8/26-8/29/2014
Prep MPC-Ex North installation area	9/1-9/26/2014
Install new MPC-Ex North	9/29-10/17/2014
Remove Sta 1 North scaffolds, Move CM North	10/20-10/24/2014
Other detector support	TBD
Infrastructure Maintenance and Improvement	TBD
Decommissioning of obsolete PHENIX detector equipment	TBD
sPHENIX Support	on-going
End of Shutdown Tasks (Move MS north, roll in EC , install collars, remove 10 ton cart, plates and manlifts, build shield wall, etc.)	10/27-11/26/2014
Pink/White/Blue Sheets	1/17/2014
End of Shutdown Party	???
Start Flammable gas flow	???
Close shield wall, install radiation interlocks and prepare for run 14	12/31/2014
Start run 15	1/2/2015

Safety and Security

From Michael Hauptmann: Lessons learned from a DOE Savannah River Site:

Electric Power Tool Accident Results In Severed Finger Tendon

- **Lessons Learned Statement:**

An SRNL employee, cutting plastic drums with a sawzall, cut a finger and severed a tendon due to improper work controls.

- **Discussion:**

The employee was cutting 30-gallon poly drums in half for waste minimization at the 786-A facility. The employee was using a Milwaukee Heavy Duty Orbital Super Sawzall to cut the drums, and was turning the drums upside down and cutting the sides first, and then cutting through the bottom of the drum last to complete the cut (when upside down the bottom was about at waist level).

The employee was finishing a cut through the bottom of the drum when the saw jumped out of the cutting path and the blade struck the employee on the top of the employee's middle finger and cut a tendon. The employee was wearing work gloves at the time along with a lab coat and safety glasses.

- **Initial Lessons Learned From This Event:**

1. The tool selected presented an unnecessary hazard - a lighter, less energetic tool would have been appropriate.
2. The cutting operation was being done without the drum being anchored - requiring the individual to use one hand to hold the drum at the completion of the cut.
3. When the worker had difficulty with the cutting operation, a "time-out" was not taken.
4. The necessity of this person and organization doing this operation (size reduction for waste disposal) was not evaluated by management.

PHENIX
LABORATORY
4-10-14

No Injury Report this week (April Fools?)

4/10/2014



No Recent Events Report this week

4/10/2014



Where To Find PHENIX Engineering Info

*Run 14
Continues!*



It's too crowded in my garage. The Shadow is for sale, at a good price.



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

4/10/2014



Video of the Week

[BNL Ad](#)