

# PHENIX WEEKLY PLANNING



Dec. 5, 2013  
Don Lynch

## This Week (& Last week)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Thanksgiving Holiday</li> <li>• Move FVTX/VTX to 1008</li> <li>• Begin installing services for FVTX/VTX</li> <li>• Complete Survey of FVTX/VTX in IR</li> <li>• Survey beampipe</li> <li>• MPC-Ex magnetic material check out</li> <li>• MPC-Ex Install in MMS piston Hole</li> <li>• Begin connecting MPC-Ex services</li> <li>• Continue sPHENIX support             <ul style="list-style-type: none"> <li>• HCal prototype assembly</li> <li>• EMCal prototype assembly</li> </ul> </li> <li>• Future IR evolution modeling</li> </ul> | <ul style="list-style-type: none"> <li>- Done</li> <li>-Done</li> <li>- In Progress</li> <li>- In Progress</li> <li>-Done</li> <li>-Analyzed &amp; Done</li> <li>- Done</li> <li>- In Progress</li> <li>-In Progress</li> </ul> |
|---|---|

## Next Week

- Finish FVTX/VTX services and cooling
- Begin VTX & FVTX commissioning
- Finish Installing MPC-Ex services for run 14
- Complete MPC-Ex Installation
  - Remove MPC-Ex installation tool
  - Finish MPC-Ex rack assembly
  - Install MPC-Ex rack on MMS MuTrigger rack
  - Install LV cables from MPC-Ex rack
  - Install bias cables from MPC-Ex rack
  - Install control cables from MPC-Ex rack
  - Assemble MPC-Ex FEM's
  - Install FEM's
  - Install signal cable to FEM's
  - Install fiber from MPC-Ex rack to MPC-Ex FEM's
- Remove, disassemble and stow station 1 South scaffolding
- Begin IR & EC prep for move to IR
- Continue sPHENIX support
  - HCal prototype assembly
  - EMCal prototype assembly
  - Tilting/rotating Support Structure assembly & test
- Future IR evolution modeling



## VTX/FVTX

FVTX/VTX East & West  
Installed survey in IR, survey  
to be completed today, ready  
for commissioning by next  
week.

## DC East & West Repairs Summary of Tasks

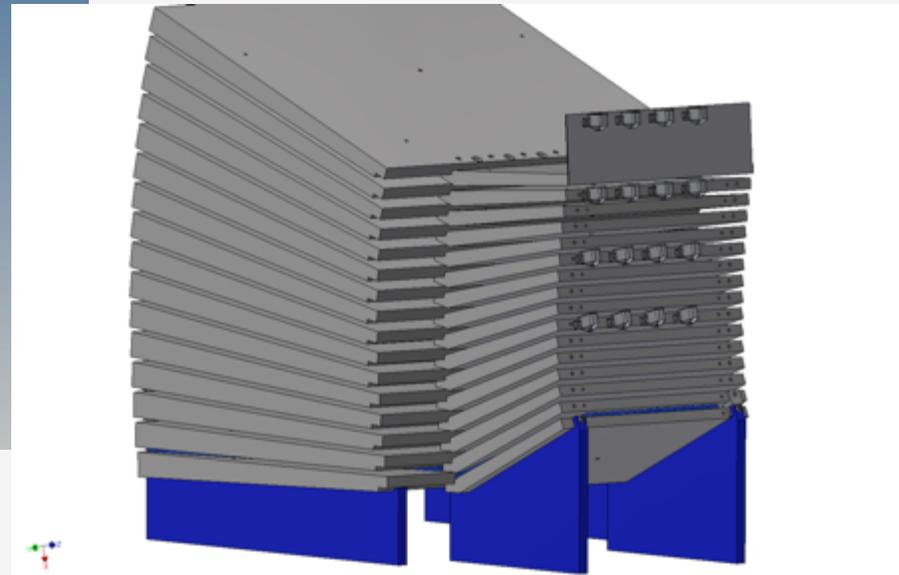
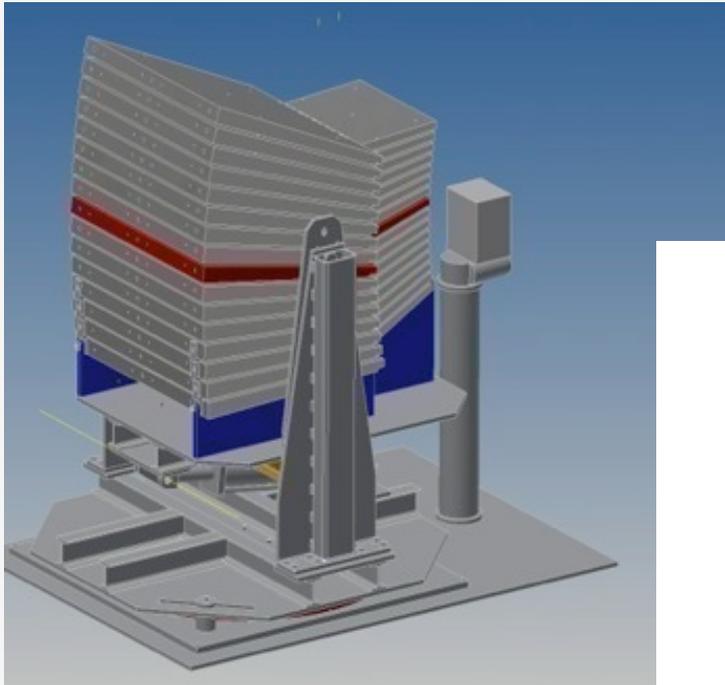
- DC West broken wire removal - 12/15 - 12/30



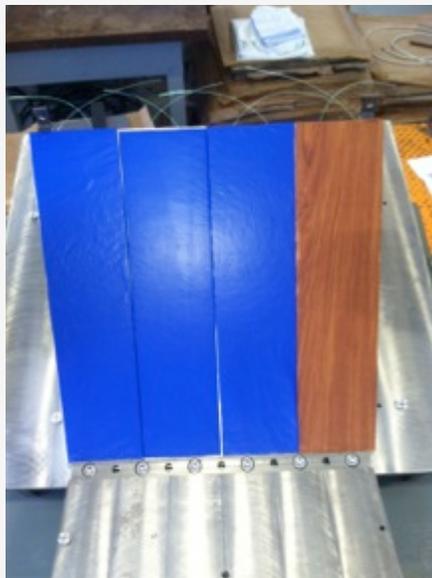
PHENIX  
WEST  
EAST



PHENIX 7 SDCORR 2013



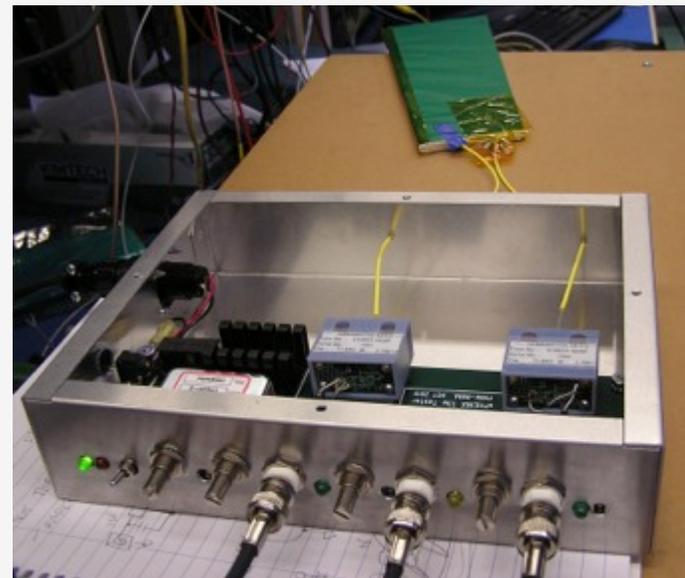
Hcal assembly in progress



12/5/2013

Hi-Bay  
Prototype  
Assembly Area

sPHENIX prototype  
electronics rack

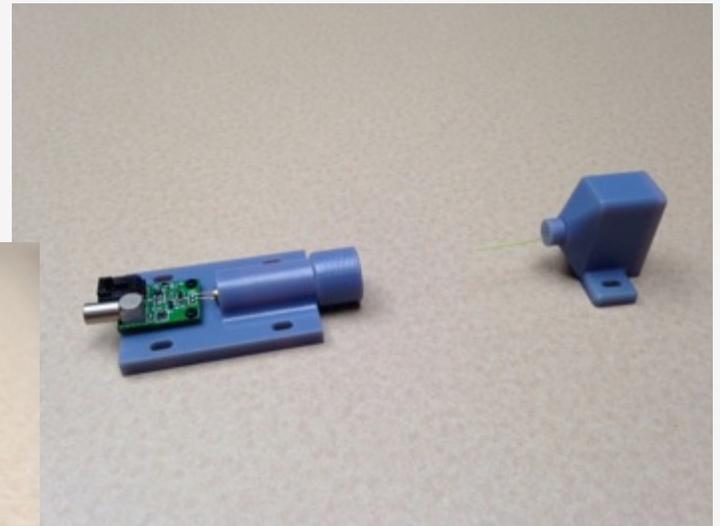
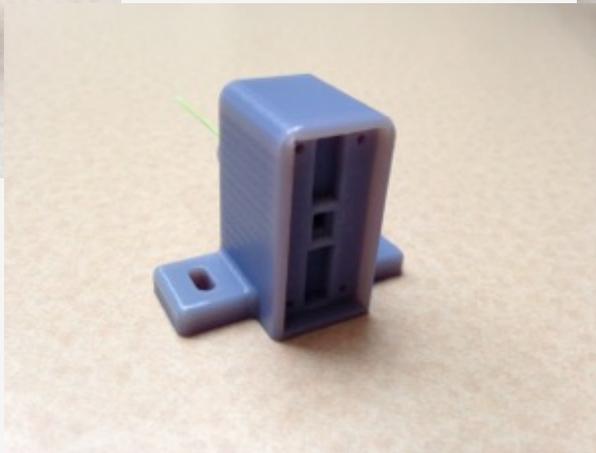
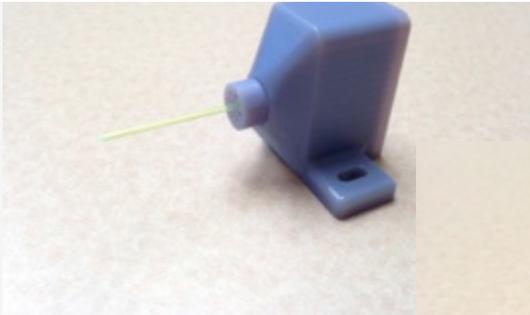
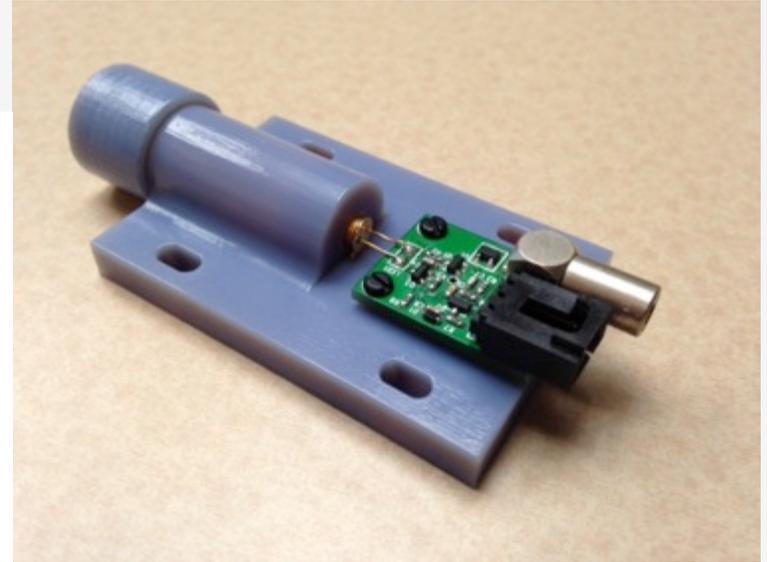
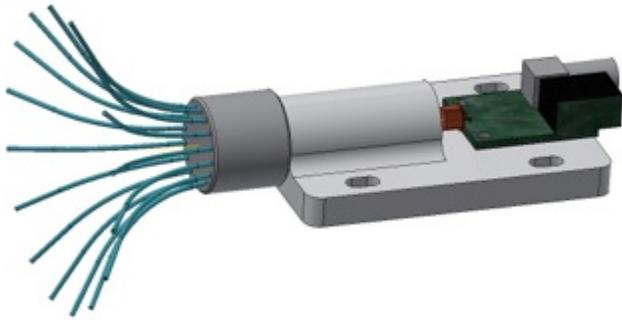


Steve Boose's Tile tester



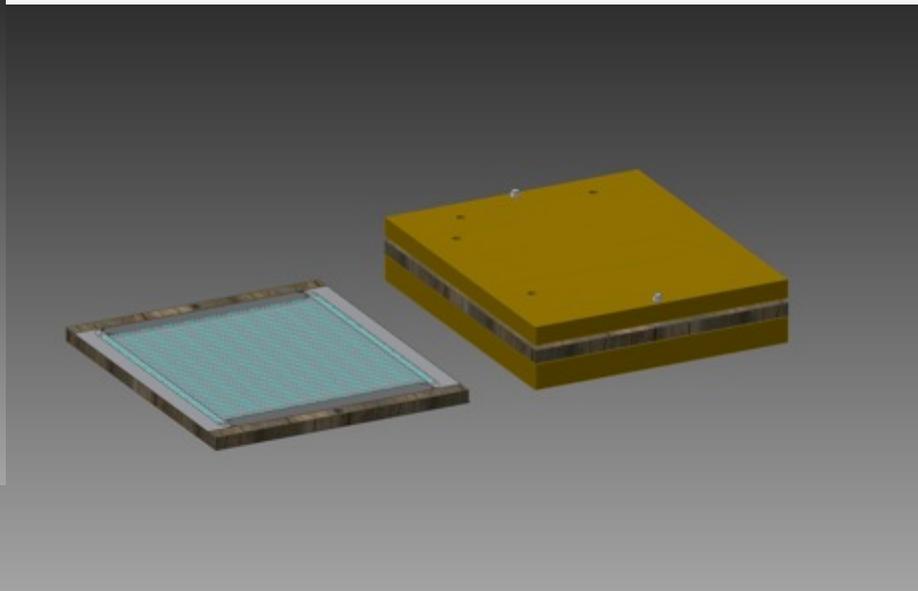
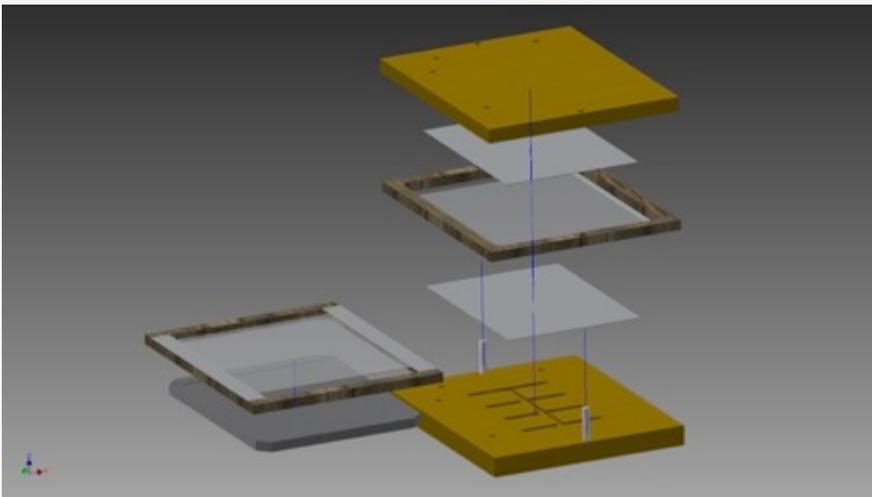
# Light Collection for HCal

PHENIX HCal

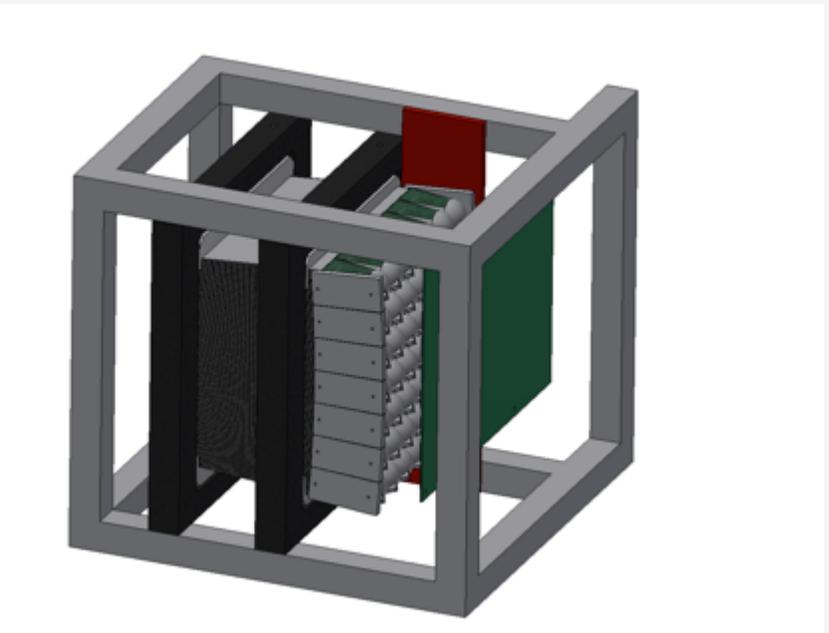
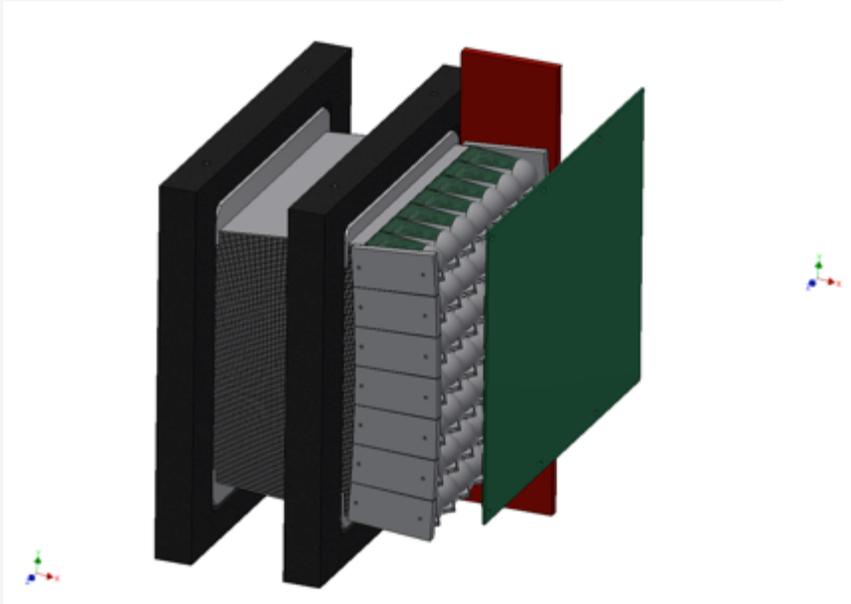


# EMCal Prototype

PHENIX PROPOSAL

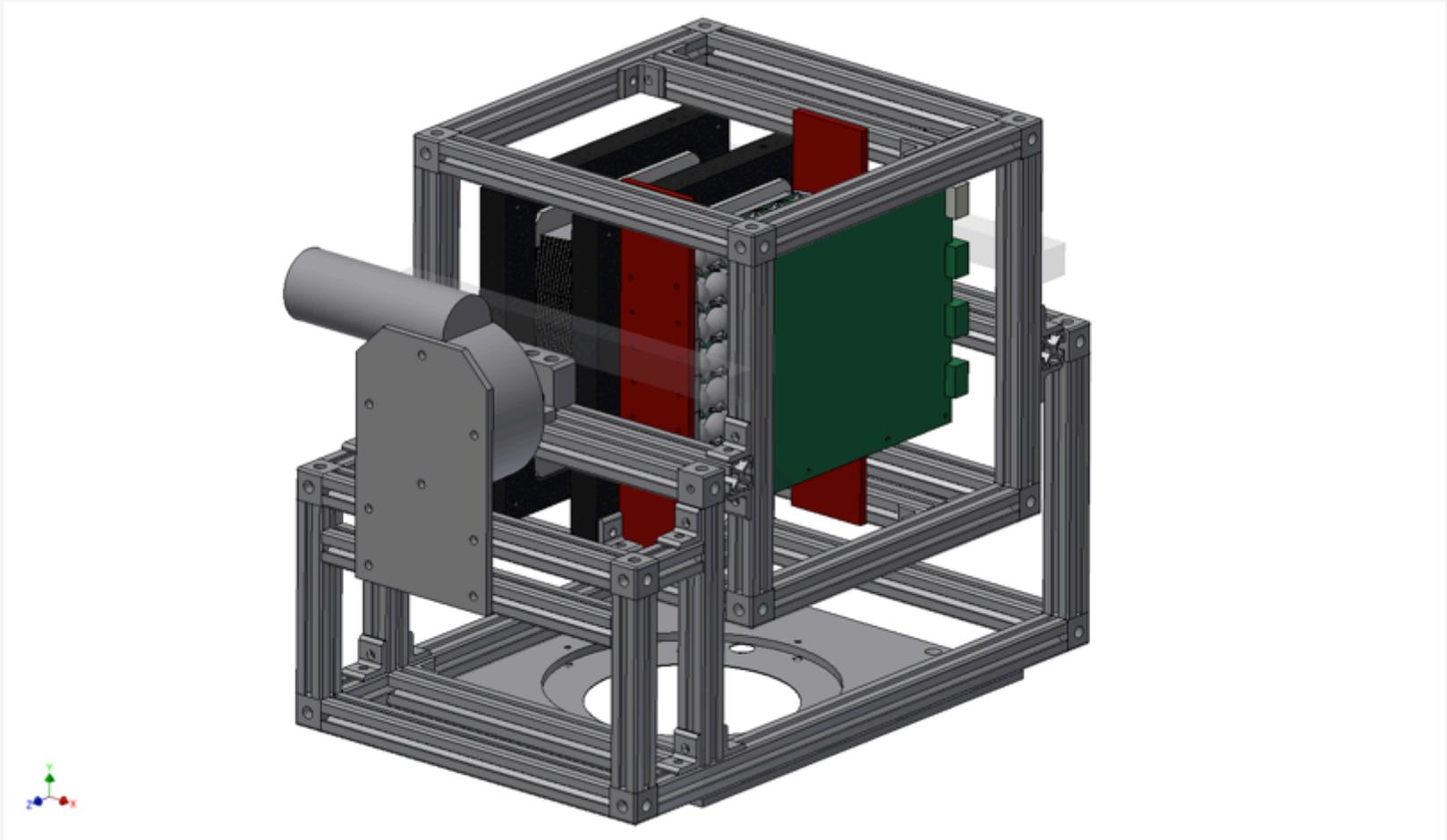


"Droid Army" light collection



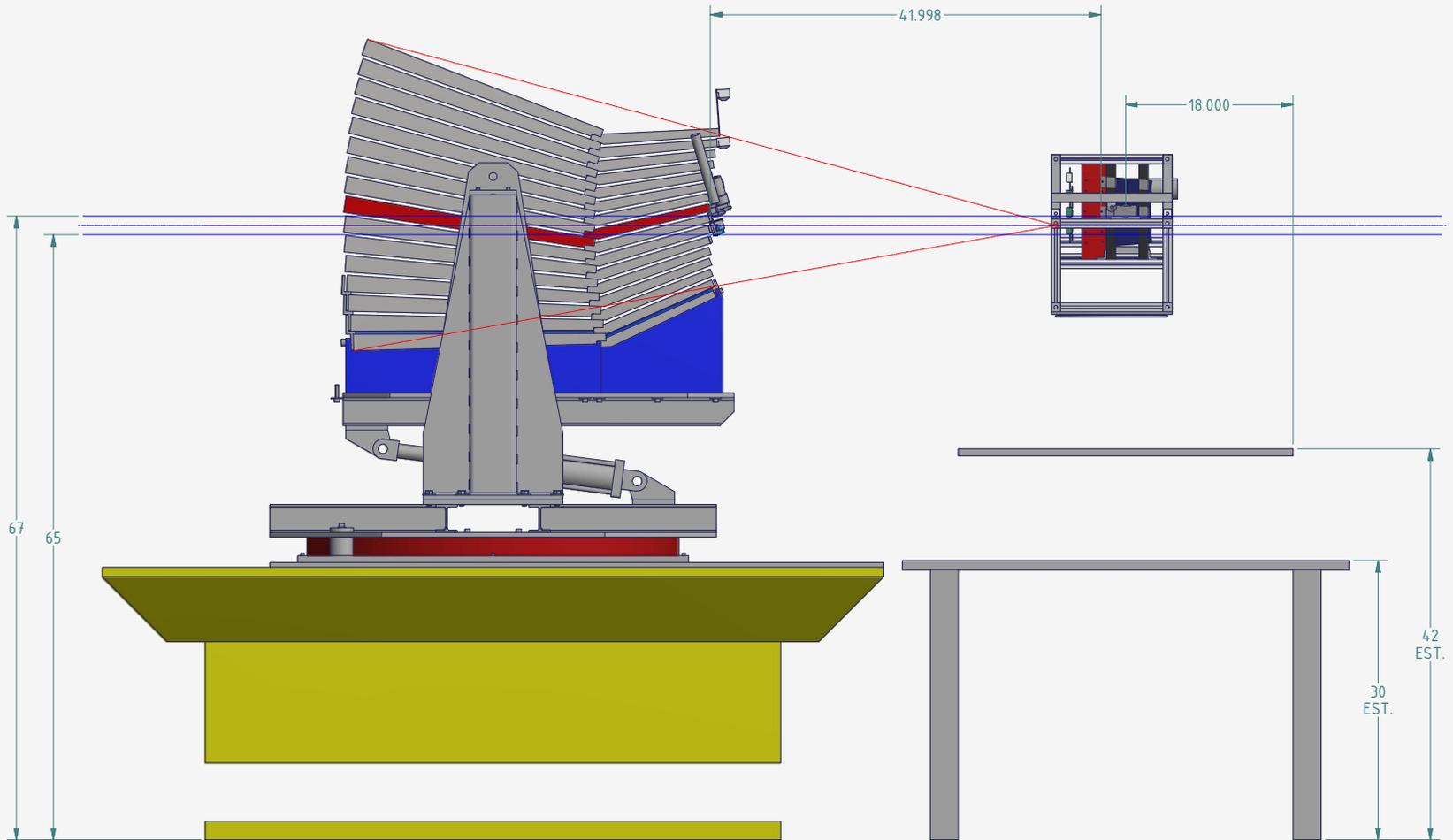


# EMCal Support

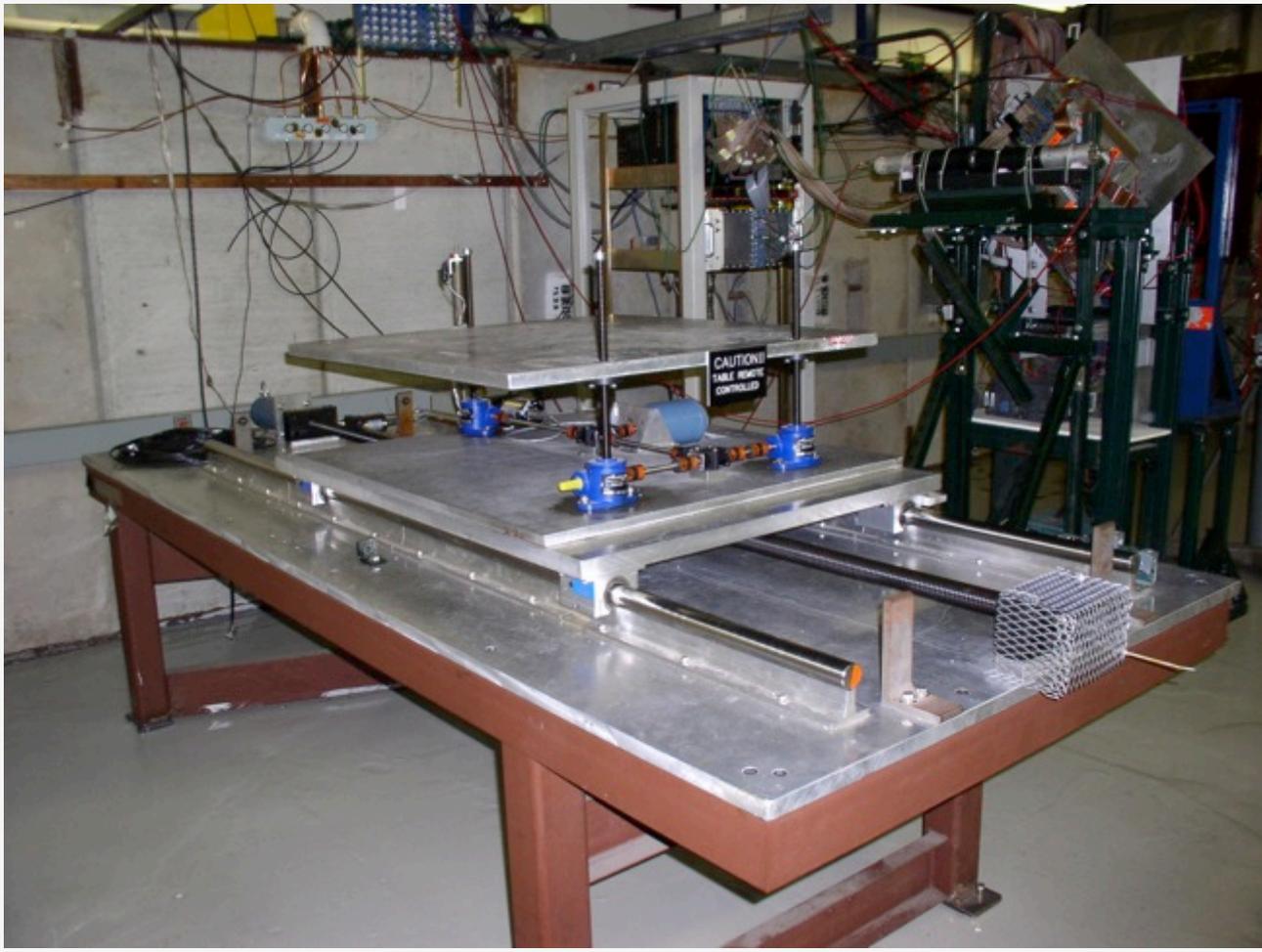




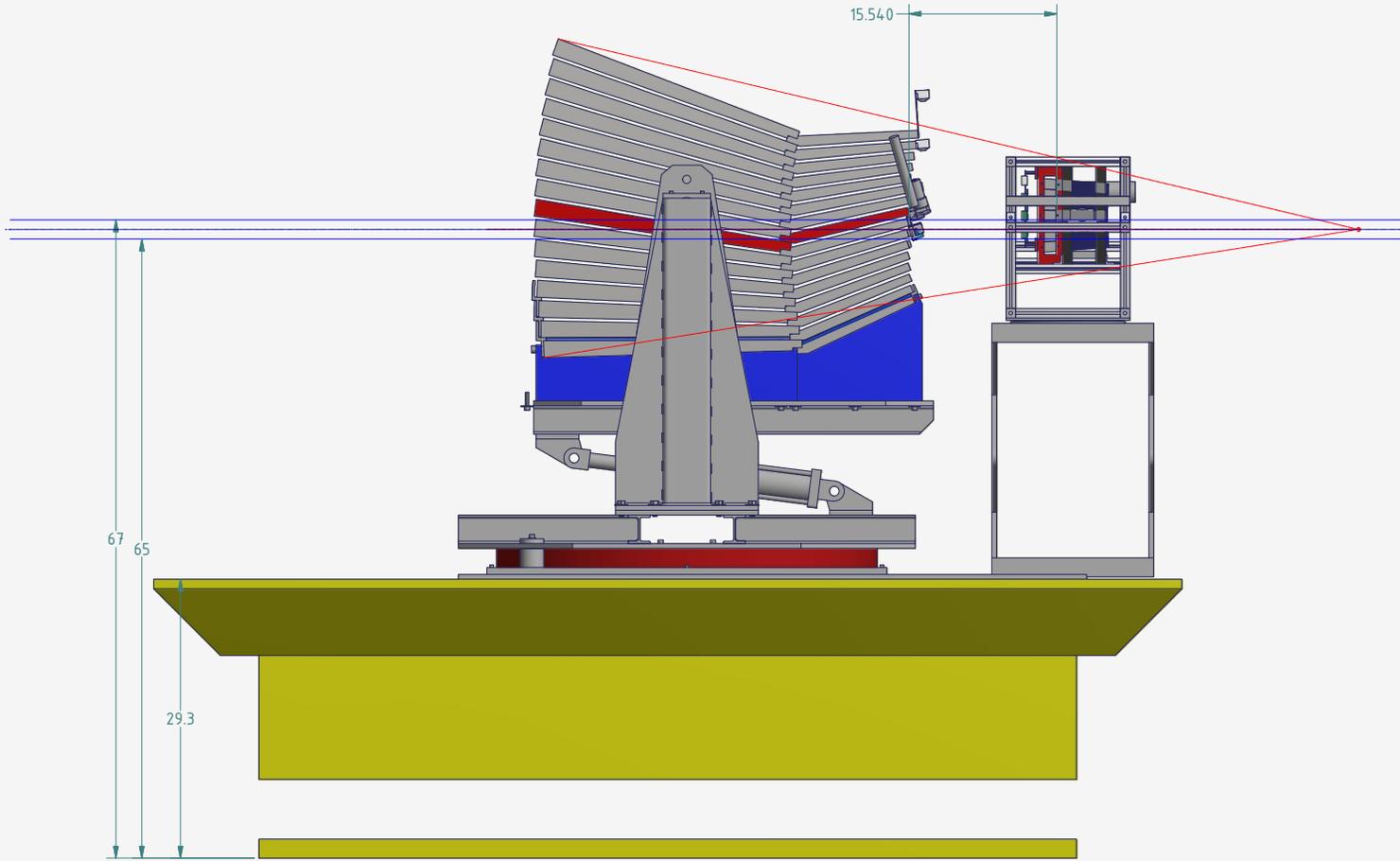
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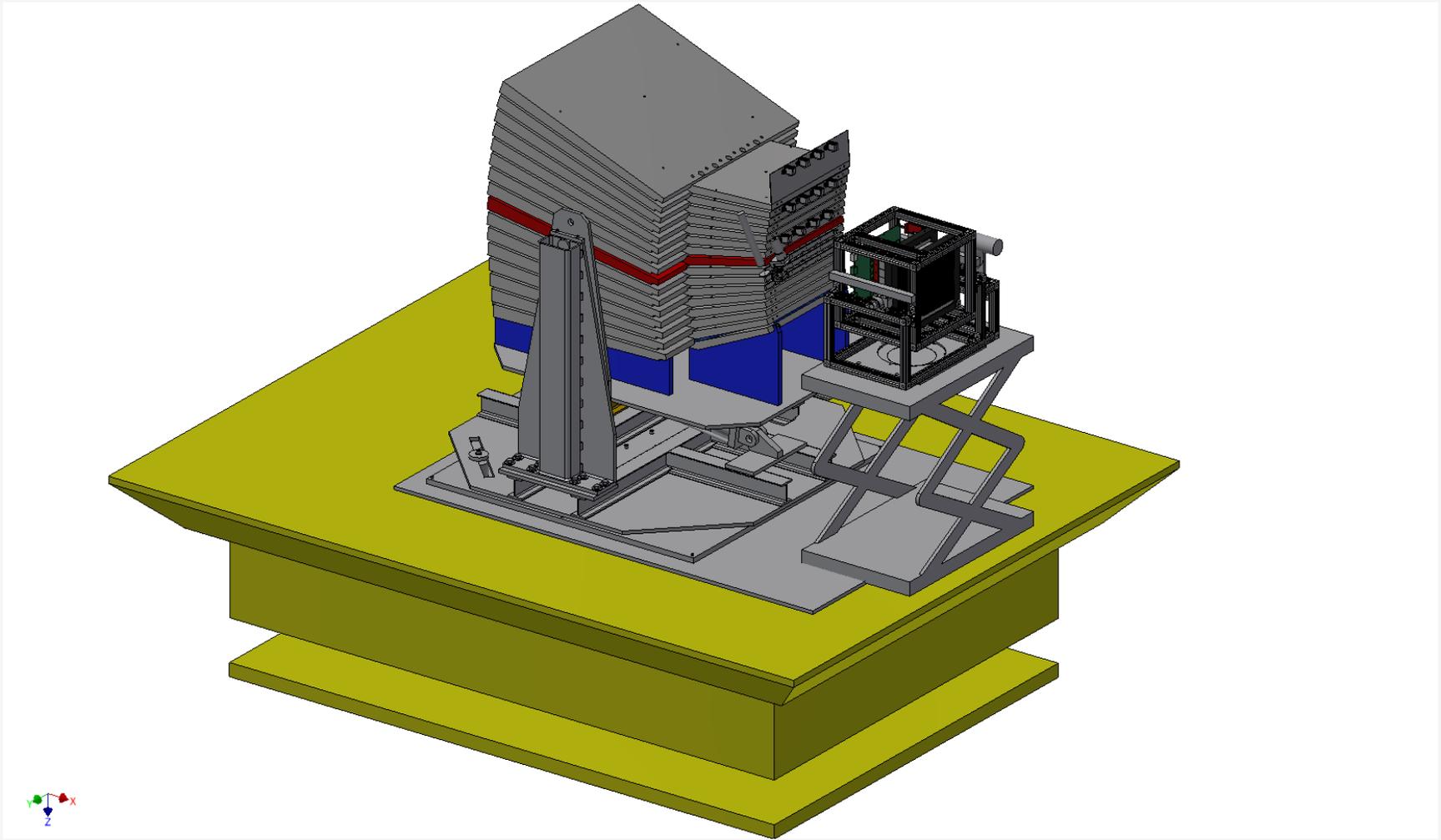
PHENIX 7 SDCORR NORM



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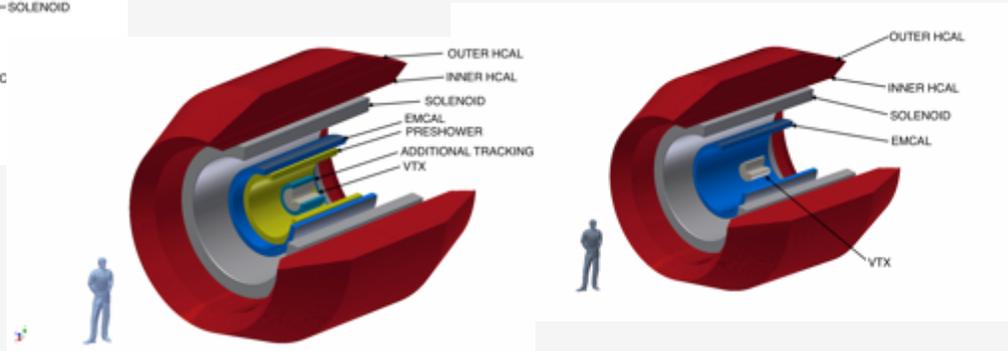
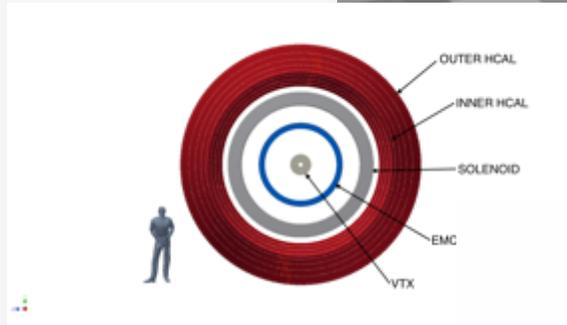
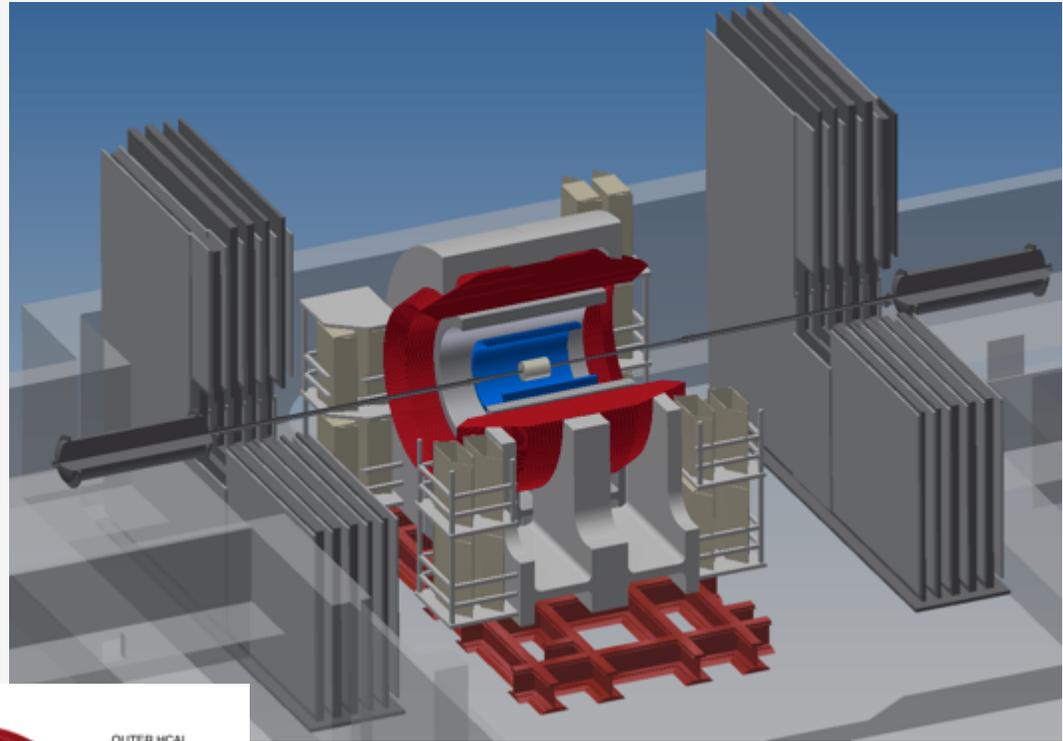
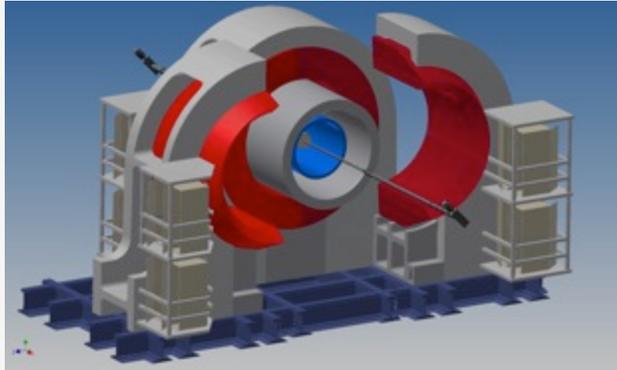


PHENIX 7 SCAFFOLD WITH NO-3



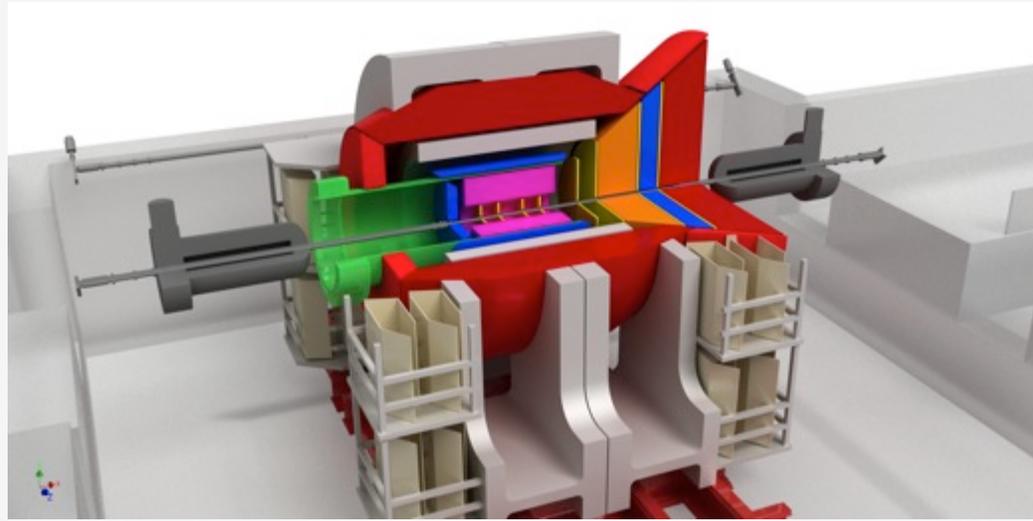
The screenshot shows a web browser window displaying the Northern Tool + Equipment website. The browser's address bar shows the URL [www.northerntool.com/shop/tools/product\\_200399300\\_200399300](http://www.northerntool.com/shop/tools/product_200399300_200399300). The website header includes the Northern Tool + Equipment logo, navigation links (Sign In, My Account, Order Status, Wish List, Help), and contact information (Product Experts Available, 1-800-221-0516, Checkout). A search bar and navigation menu (CATEGORIES, BRANDS, SALE + CLEARANCE, CATALOG, FIND A STORE) are also present. A prominent banner for 'CYBER WEEK' features 'ONLINE EXCLUSIVE SPECIALS UP TO 60% OFF' and a 'FREE GIFT CARD WITH ALL ORDERS OVER \$100' offer, with a key code of 172885. The main product page is for a 'Vestil Foot Pump Scissor Lift Table — 400-Lb. Capacity, 27 1/2in.L x 17 1/2in.W, Model# SCTAB-400'. The product image shows a blue scissor lift table. The price is listed as 'Only \$449.99' with a 'Guaranteed Lowest Price' badge. A quantity selector is set to 1, and there is a large 'ADD TO CART' button. Other options include 'Add to Wish List', 'Factory Shipped' (with a 5-11 business day delivery estimate), and 'Calculate Shipping'. A note indicates the item is 'Not Available in Stores' and 'Ships Truck (164.0 lbs) Special unloading requirements'. There is a 'Have A Question About This Product?' section with an 'Ask a Question' link. The page also includes a 'VIDEO' button, 'Specs' and 'Compare' dropdowns, and a 'Product Summary' section. At the bottom, there is a 'RECENTLY VIEWED' section and a 'HIDE' button.

PHENIX PROGRESS REPORT

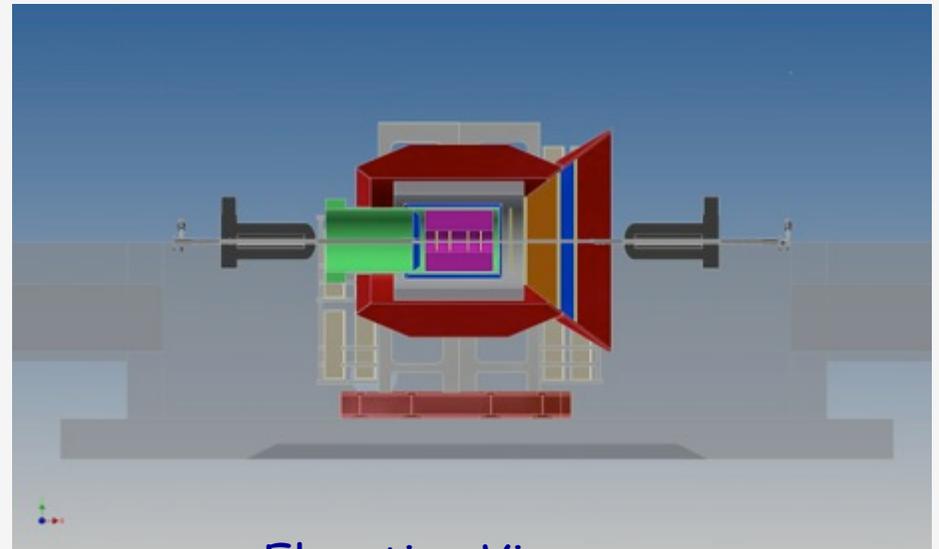
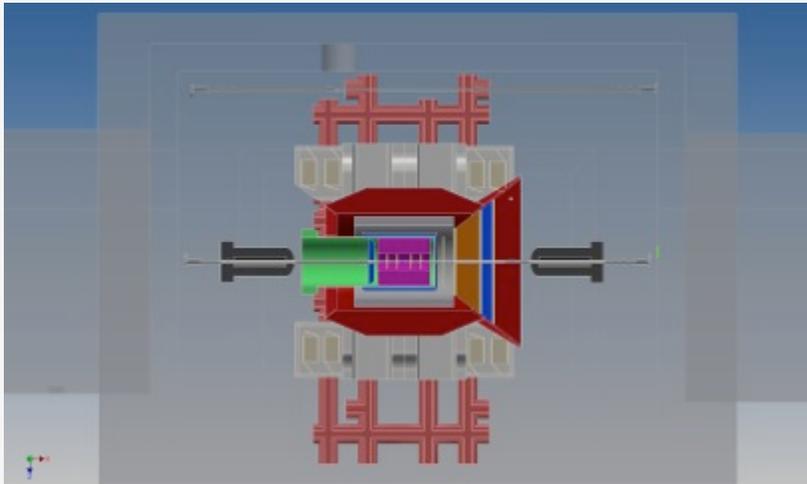


sPHENIX Modeling support for updated MIE

ePHENIX



Plan View



Elevation View

Alcohol Chiller Work For Shutdown 2013



Merlin Chiller

➤Chiller supplied about ½ the flow as in the past.

- Pressure on chiller says ~70-80psi
- Install gauge on supply line and measure actual output pressure.
- Replace chiller with spare if needed.
- Send old chiller out for maintenance or replace.

New Chiller warranty replacement ready for test and installation

Re-Insulate Glycol lines



❖Remove old polyethylene insulation and wrap and replace with foam rubber insulation.

- Temp of fluid is affected too much by temp change in the gas house.
- Lines are condensing and dripping because of gaps in insulation.

Low priority complete prior to run 14

PHENIX  
 EAST  
 WEST  
 NORTH  
 SOUTH

Prep for 2013 shutdown	Done
Design, Fabricate MPC-Ex	
Define tasks and goals	
Analysis and design of fixtures, tools and procedures	
Fabricate/procure tools and fixtures	
Tests, mockups, prototypes	
Receive, fabricate, modify, finish installables	
Review and approval of parts, tools, fixtures and procedures	
Assembly and QA tests	
VTX Strippixel redesign	Done
VTX Strippixel 1 <sup>st</sup> article stave assembly	Done
VTX Strippixel 1 <sup>st</sup> article qualification/performance tests	Done
VTX Strippixel sensor reclamation	Done
Run 12 Ends	Done
Shutdown Standard Tasks	Done
• <del>Open wall, disassemble wall, Remove MuID Collars</del>	
• Move EC to AH, etc.	
VTX/FVTX Post run tests	Done
Disassemble VTX/FVTX services	Done
July 4 <sup>th</sup> Holiday	Done
Remove VTX/FVTX and transport to Chemistry Lab	Done
Remove Lampshade MMS, East Vertical	Done
VTX strippixel stave production	Done
Pixel Ladder repairs	Done
VTX Strippixel ladder assembly & Test	Done
Assemble and Test Partial MPC-Ex	Done
Install Partial MPC-Ex	<b>In Progress</b>

PHENIX  
 PRODUCTION

MuTR Troubleshooting, maintenance and repairs	Done
Summer Sunday (8/4) Prep and teardown	Done
Summer Sunday (RHIC)	Done
DC West troubleshooting & Repairs	Done
DC East Window Upgrade and Related Repairs	Done
Re-assemble VTX/FVTX halves	Done
Test, survey (at Chemistry)	Done
<b>Install &amp; Survey VTX/FVTX in 1008 IR</b>	<b>Done</b>
VTX Commissioning	<b>12/9/2013-1/31/2014</b>
Other detector maintenance as required	As required
Infrastructure maintenance as required	As required
Pre-run commissioning and prep for run 14	12/9/2013-1/31/2014
sPHENIX HCal Prototype Assembly/test	8/19-12/31/2013
Prep for EC roll in	<b>12/9-12/13/2013</b>
Roll in EC	<b>12/16-12/20/2013</b>
Prep IR for run	<b>12/23-1/3/2013</b>
DC West wire repairs	12/15-12/30/2013
Christmas Holiday	12/24-25/2013
New Year's Day Holiday	1/1/2014
Pink/Blue/White sheets	<b>12/23-1/10/2014</b>
Start run 14	2/3/2014

PHENIX  
UNIVERSITY  
SCHOOL  
OF  
BUSINESS

From Ray Karol:

1. Temporary halt to penetration permits (drilling into building structures - floors and walls)
2. Reminder accidents with gov vehicles must be reported immediately to police at x2238, no matter how minor. Also report it to supervisor.

PHENIX  
SOLUTIONS  
FOR  
SAFETY  
AND  
SECURITY

*Did not receive the injuries and incidents report this week.*

- S2 (Safety Solutions) Call for proposals. Anyone who would like to submit a safety improvement proposal, let me know. \$20K is available, submission due by 1/14/14.

Where To Find  
PHENIX Engineering Info

PHENIX Annual Holiday Dinner  
next Tuesday night.  
Reservations due tomorrow.

