

# MicroBooNE Status

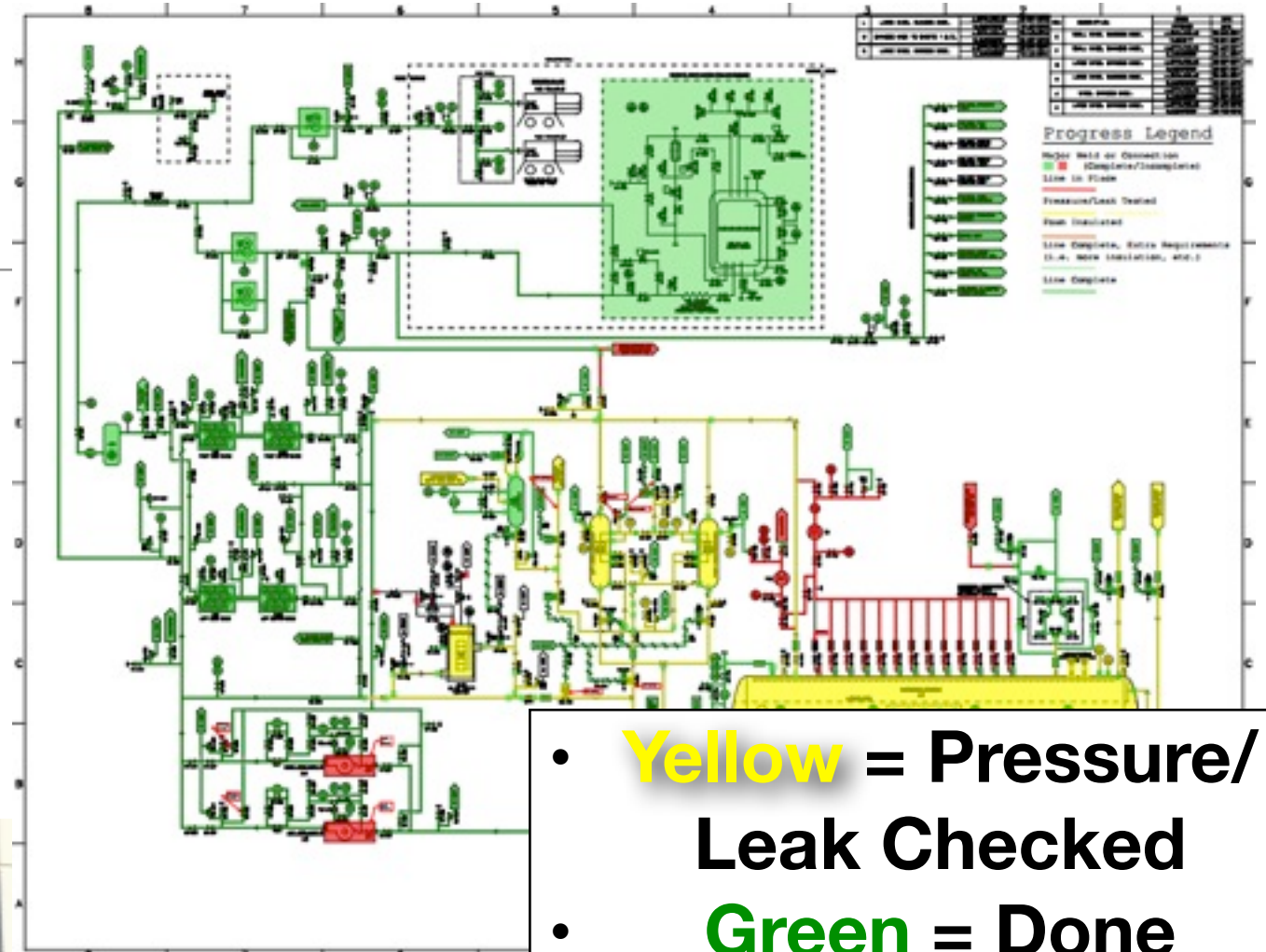
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All Experimenters' Meeting

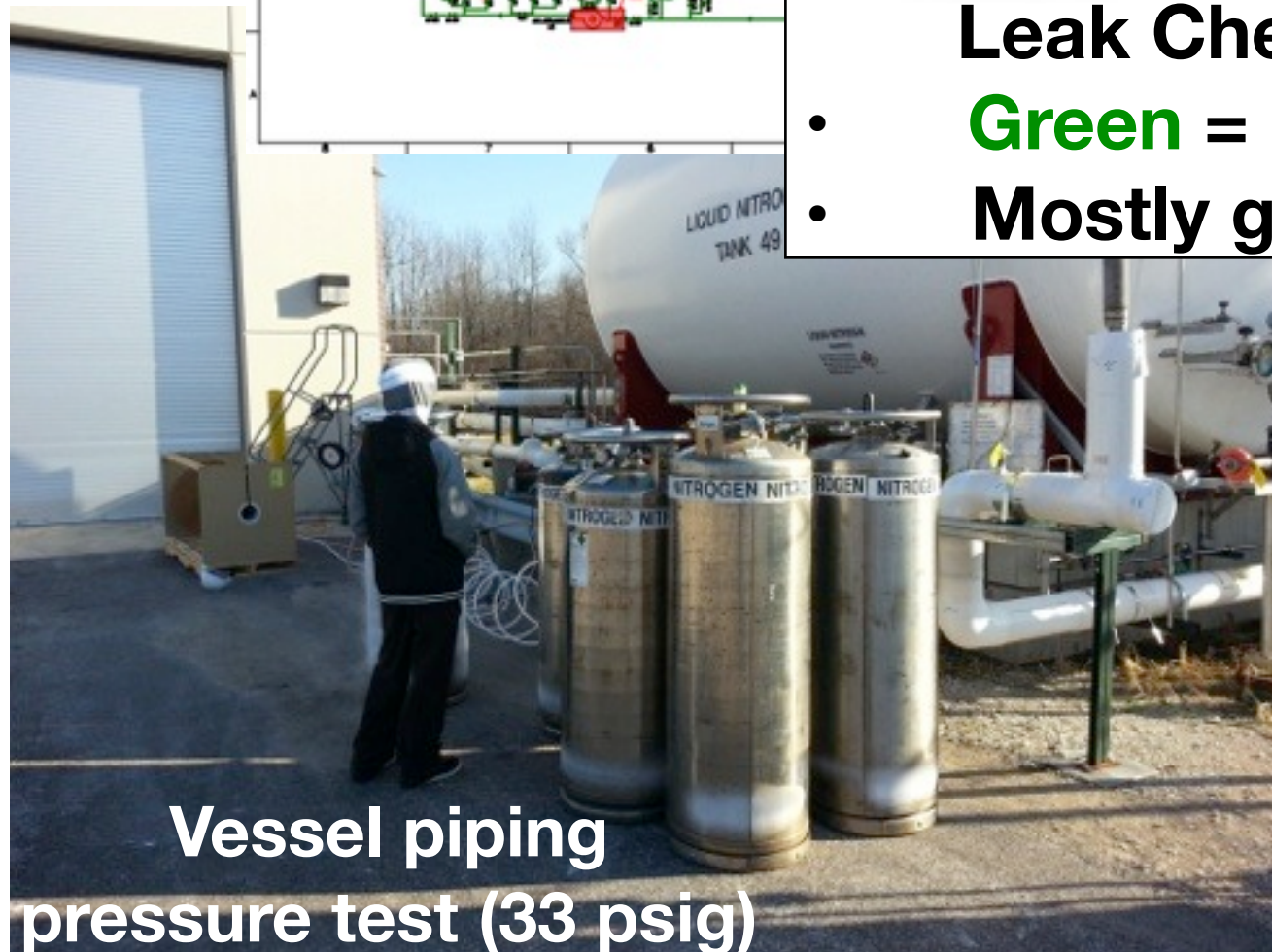
Sarah Lockwitz, *FNAL*  
December 8, 2014

# Cryogenics Work

- All required pressure & leak checking all completed with the exception of the piping to the inline purity monitor
- Insulation work continues (Roberto, Anne, Jonathan, Tia, Ben, Andrzej, Jeremy, Thomas, Jyoti, Michael)
- Controls group is completing their wiring



- **Yellow** = Pressure/Leak Checked
- **Green** = Done
- **Mostly green!**



**Vessel piping  
pressure test (33 psig)**



# Connections and Racks

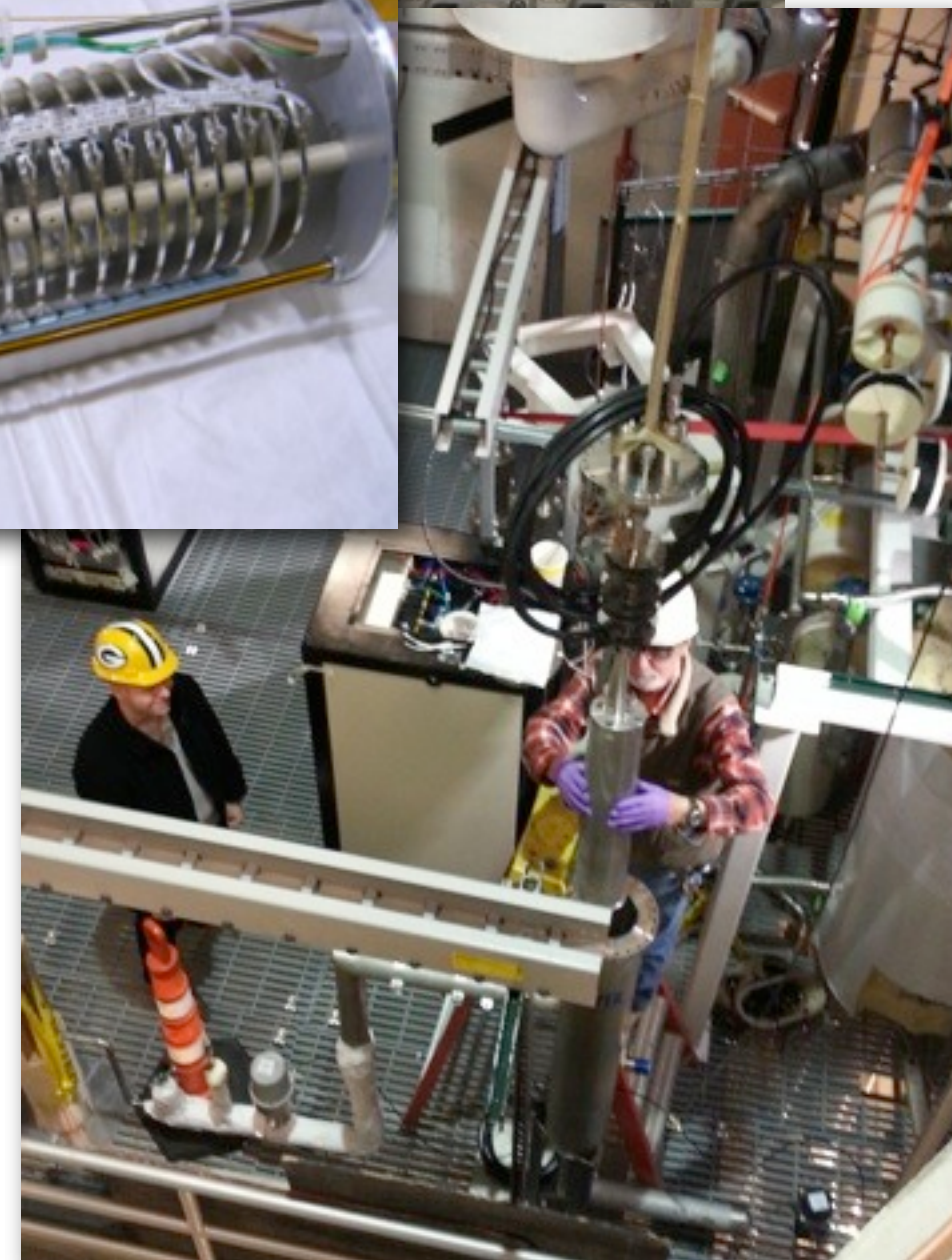
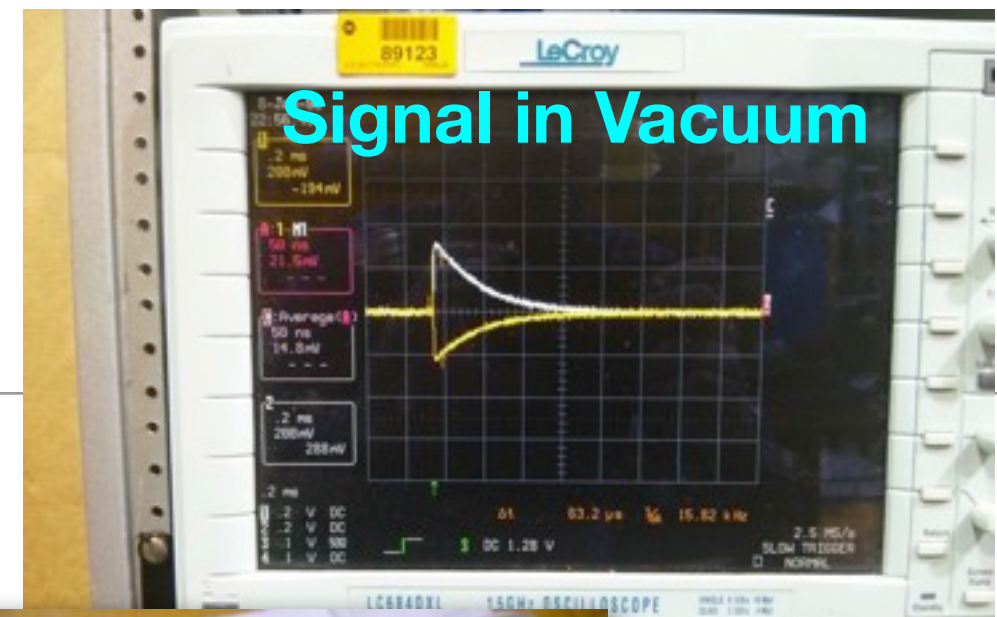
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- 10 signal feedthroughs connected
  - 1 remains -- waiting on insulation work to finish
- All racks are in the building
  - All are pORC'ed with the exception of the purity monitor and cryo rack (Monday 9 AM)
- Tuesday is the final ORC walk through



# Purity Monitor

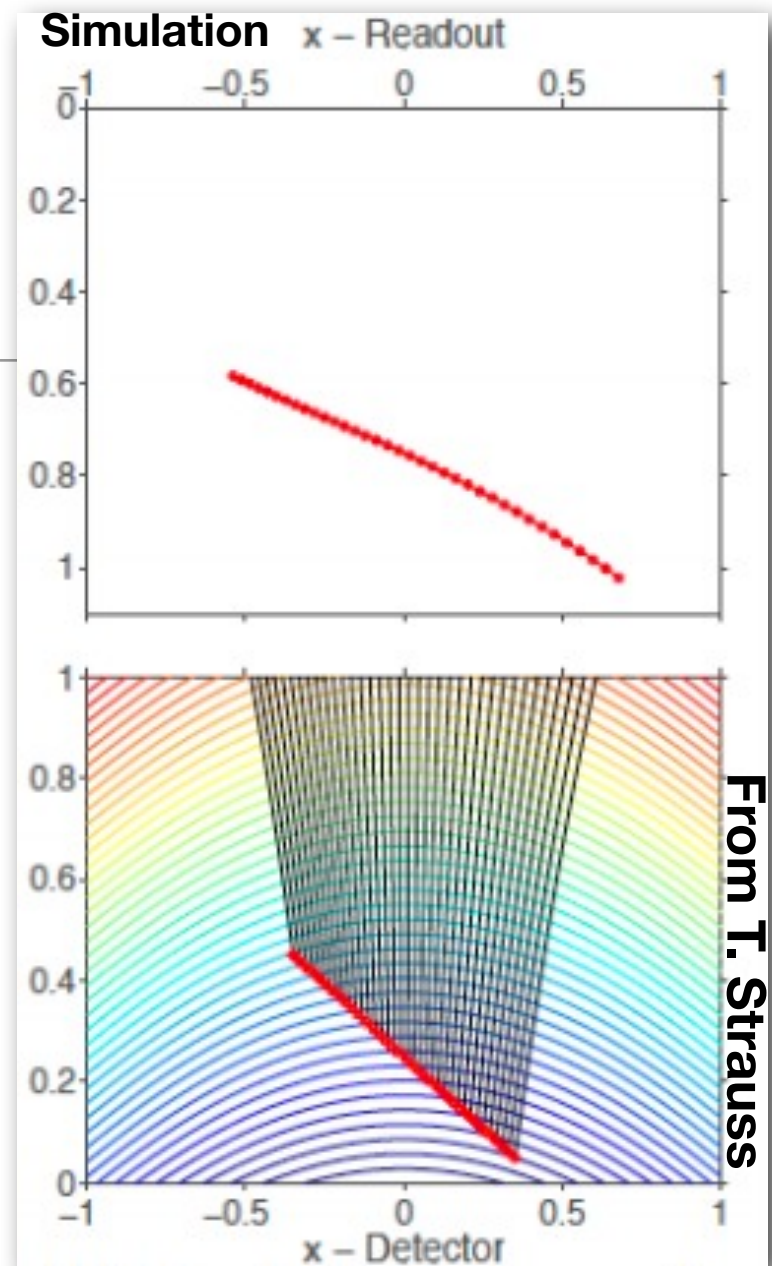
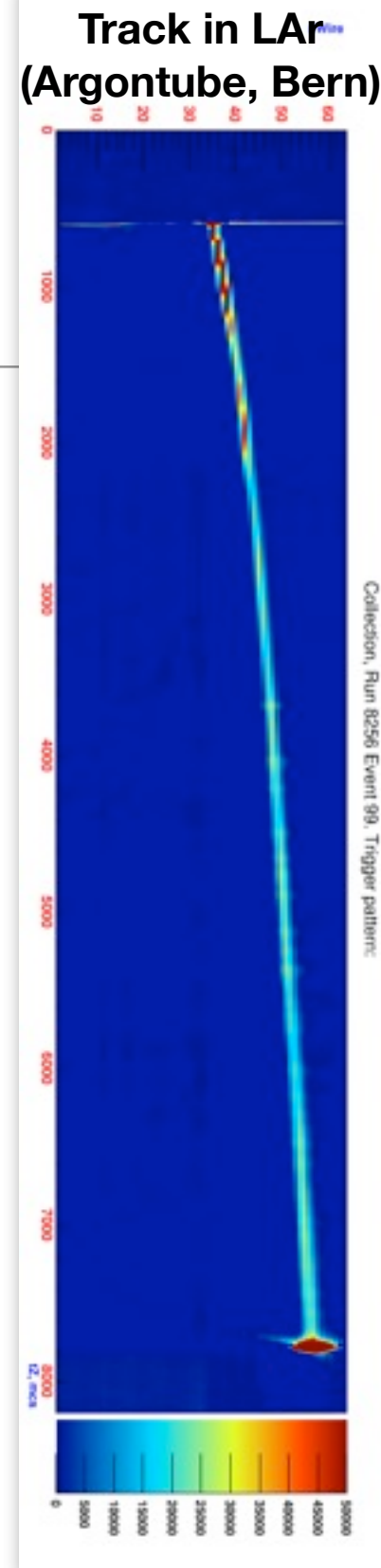
- A custom device to help determine the electronegative contamination level of the LAr
- Inline purity monitor was tested in vacuum and argon gas
- The inline monitor was installed last week
- The racks were delivered last Thursday and was pORC'ed this morning





# Laser

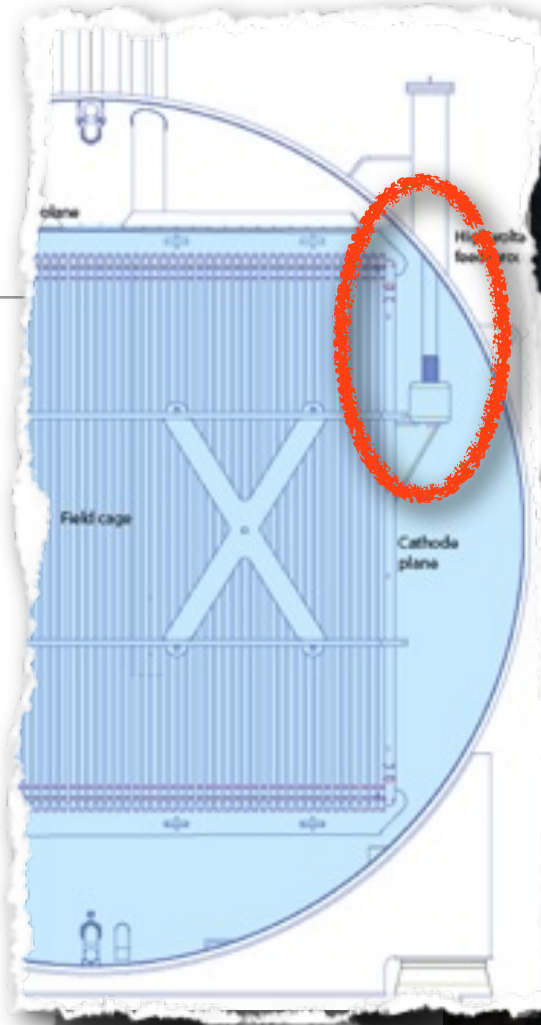
- The laser is part of our calibration system.
  - It produces straight tracks.  
Reconstruction tells us what the field distortion is
- Laser control racks and the optical system were installed and have ORC
  - Laser Safety Officer approved operation procedures.
- Later this month, an alignment of the optical boxes will be done to establish the laser path into the cryostat.





# Cathode High Voltage Feedthrough

- The HV feedthrough supplies the voltage for the TPC drift field
- C. James, T. Griffin, and I inserted the HV feedthrough earlier this month
- It went smoothly -- took less than two hours with most of that being prep time
- I'll connect the HV cable after the insulation work is completed near the flange



# What's Coming....

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- The MicroBooNE project has its CD4 review Thursday
  - CD4 = project complete --> Installation of the experiment is complete
- Following the review, DOE CD4 ***approval*** allows us to begin commissioning
  - Detector commissioning plan is in place (Bruce Baller & Matt Toups are the commissioning leaders)
  - Expect ~2 months for cooling down
- Then... more regular reports at AEM!