

# LArIAT Run Coordination August 26 to September 2

Will Flanagan  
on behalf of the LArIAT Run Coordination Dream Team

University of Texas at Austin

September 2 2014



# Bird's Eye View

- Mini-DAQ Rebooting
- Wire Chamber Timing
- LArIAT Trigger Configuration
- Scintillator Paddle Cabling
- OTMB Installation
- Data Collected and Data To Be Taken

# Mini-DAQ Rebooting

- The mini-DAQ started hanging around 6pm on 8/27
- Rebooting with the wiki instructions failed to properly reset the mini-DAQ
- Sten was able to perform a hard reset of the controller. I have added his fix to the wiki page. It is to be tried in the case the browser reboot fails.
  - [https://redmine.fnal.gov/redmine/projects/lariat-online/wiki/Communicating\\_with\\_the\\_wire\\_chambers](https://redmine.fnal.gov/redmine/projects/lariat-online/wiki/Communicating_with_the_wire_chambers)

# Wire Chamber Timing

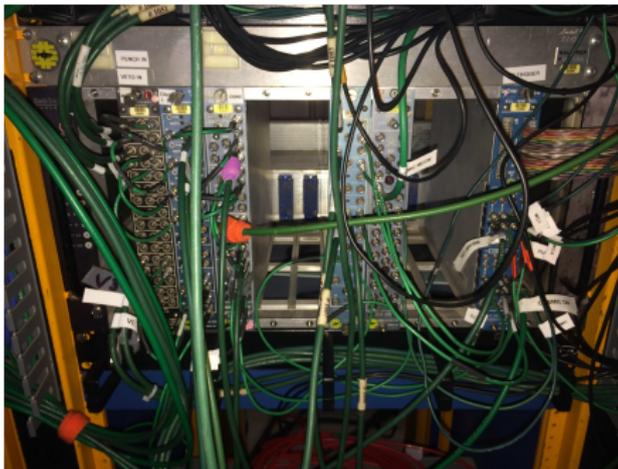
- There was some confusion with regards to the wire chamber timing.
- on 8/28, Doug and Sten changed the timing to timing resolution with the wire chamber mini-DAQ:
  - <http://dbweb4.fnal.gov:8080/ECL/lariat/E/show?e=581>
- Mike pointed out that the current settings are what is needed for the LArIAT DAQ:
  - <http://dbweb4.fnal.gov:8080/ECL/lariat/E/show?e=586>
- He also made the good point that we should have a better system for keeping track of timing settings during this period of switching between DAQs.
- As a general point, life will be simpler when we are no longer switching between DAQs ☺
- Is the WC timing now where it needs to be?

# LArIAT Trigger Configuration

- Currently taking data with scintillator paddle coincidences (SC1&SC2&SC3)
- During the DAQ meeting, it was decided that we would like to take some LArIAT trigger runs using USTOF and DSTOF
  - From here it would be interesting to add WC4 (using 3/4 configuration)
  - Perhaps also adding SC1, SC2, and SC3 for a very tight trigger configuration

# Scintillator Paddle Cabling

- Scintillator paddle analog input cables now go to both the patch panel (for mini-DAQ) and SC crates (for LArIAT DAQ)
  - Many thanks to Bill B., Mike K., Flavio C., Irene N., and Will Fo.



# OTMB Installation

- Eric's OTMB installation was quite smooth.
- Learned that it is more realistic to expect beam back around 2pm than 10am when going through an ORC and re-secure.

# Data Collected and Data To Be Taken

- We got some nice data with -20A, -40A, and negative polarity secondary beam (thanks Mike B.!)
  - Many thanks to last week's shifters: Flor M., Alan H., Irene N., Andrzej S., Ryan L., Will Fo., Junting H., Mike K. (+Bill B. and Doug J.)
- As previously mentioned, there is interest in getting data with TOF triggers as well as replicating our 'mini-DAQ' trigger (SC2&SC3&WC3) with the LArIAT trigger
- **We need shifters!!! No more data after Thursday!!!**

Mon 01	Tue 02	Wed 03	Thu 04
<b>Day Mon 10:00-...</b> CAL (1.0) Shifter (10.0) Junting	<b>Day Tue 10:00-1...</b> CAL (1.0) Shifter (10.0) Michael	<b>Day Wed 10:00-...</b> CAL (1.0) Brian F Shifter (10.0)	<b>Day Thu 10:00-1...</b> CAL (1.0) Brian F Shifter (10.0) Michell
<b>Evening Mon 18...</b> CAL (1.0) Shifter (10.0)	<b>Evening Tue 18:...</b> CAL (1.0) Shifter (10.0)	<b>Evening Wed 18...</b> CAL (1.0) Shifter (10.0)	<b>Evening Thu 18:...</b> CAL (1.0) Shifter (10.0) Alan Hahn