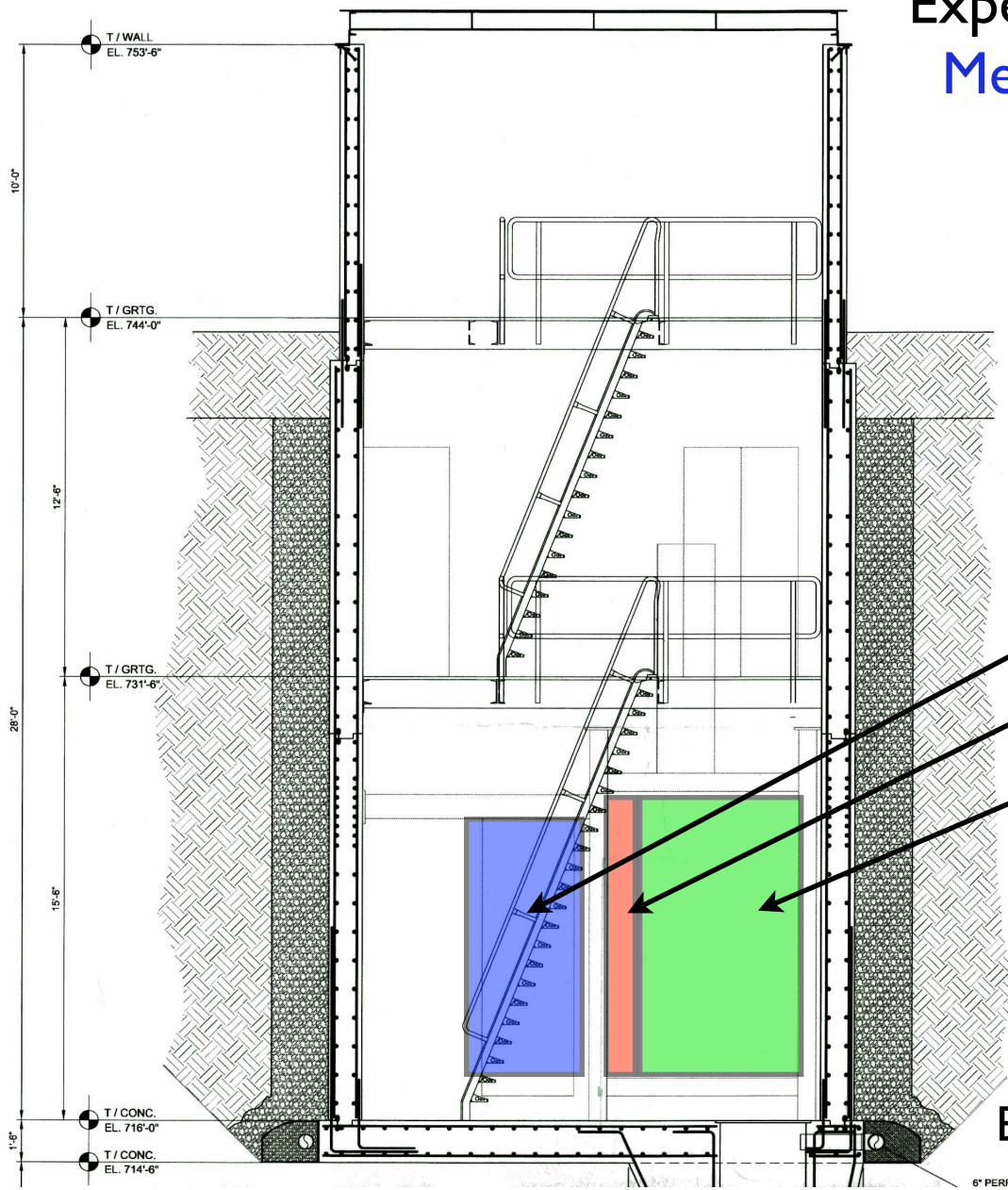
Update and Status

6/4/07

R.J. Tesarek
Fermilab

What is SciBooNE?



Experiment:

Measure neutrino cross sections

$$\nu n \rightarrow p\mu^-$$
$$\nu n \rightarrow \Delta^+\mu^- \hookrightarrow p\pi^0$$

etc.

Detector:

Muon Range Detector

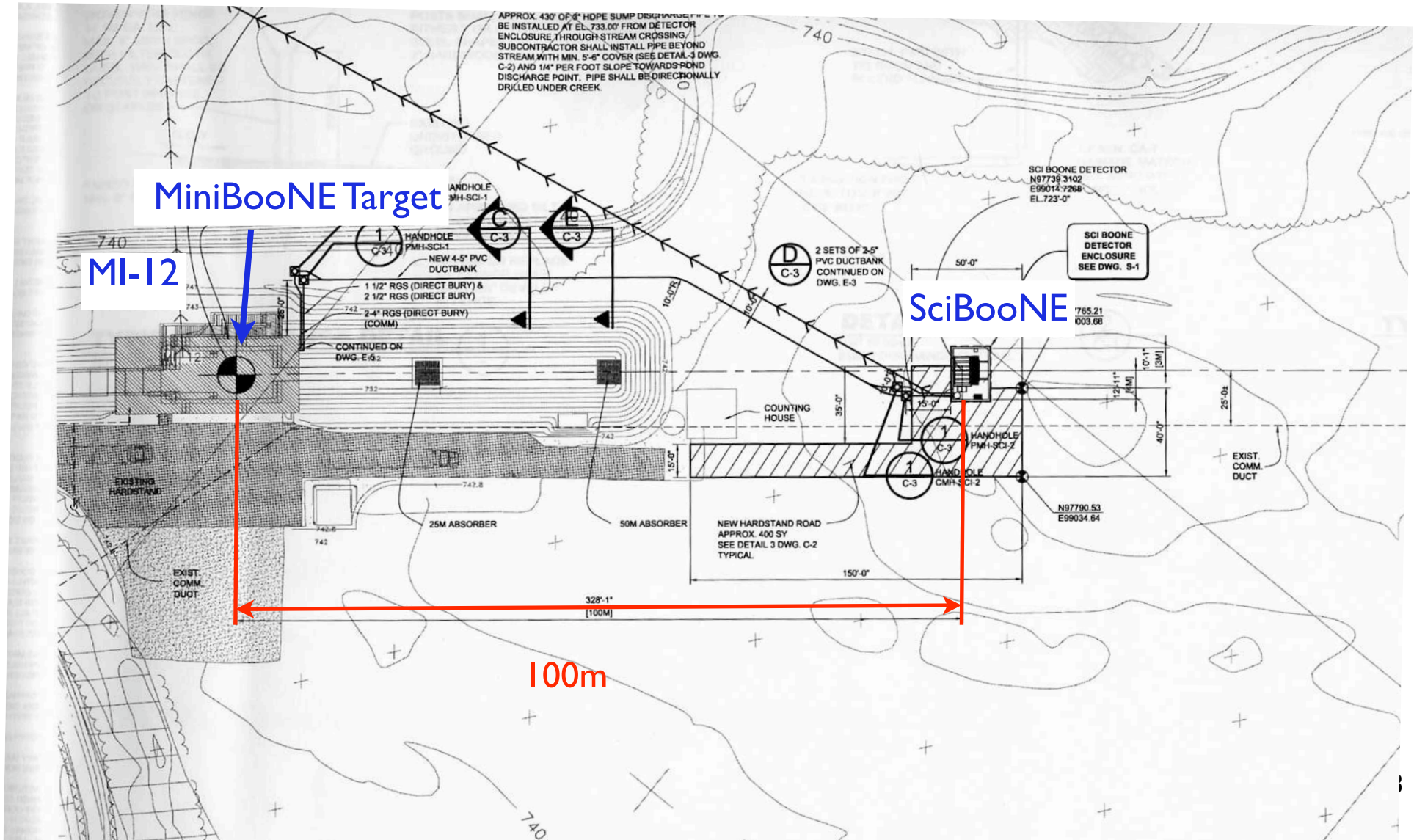
Electromagnetic Calorimeter

SciBar (target/tracker)

Booster Neutrino Beam

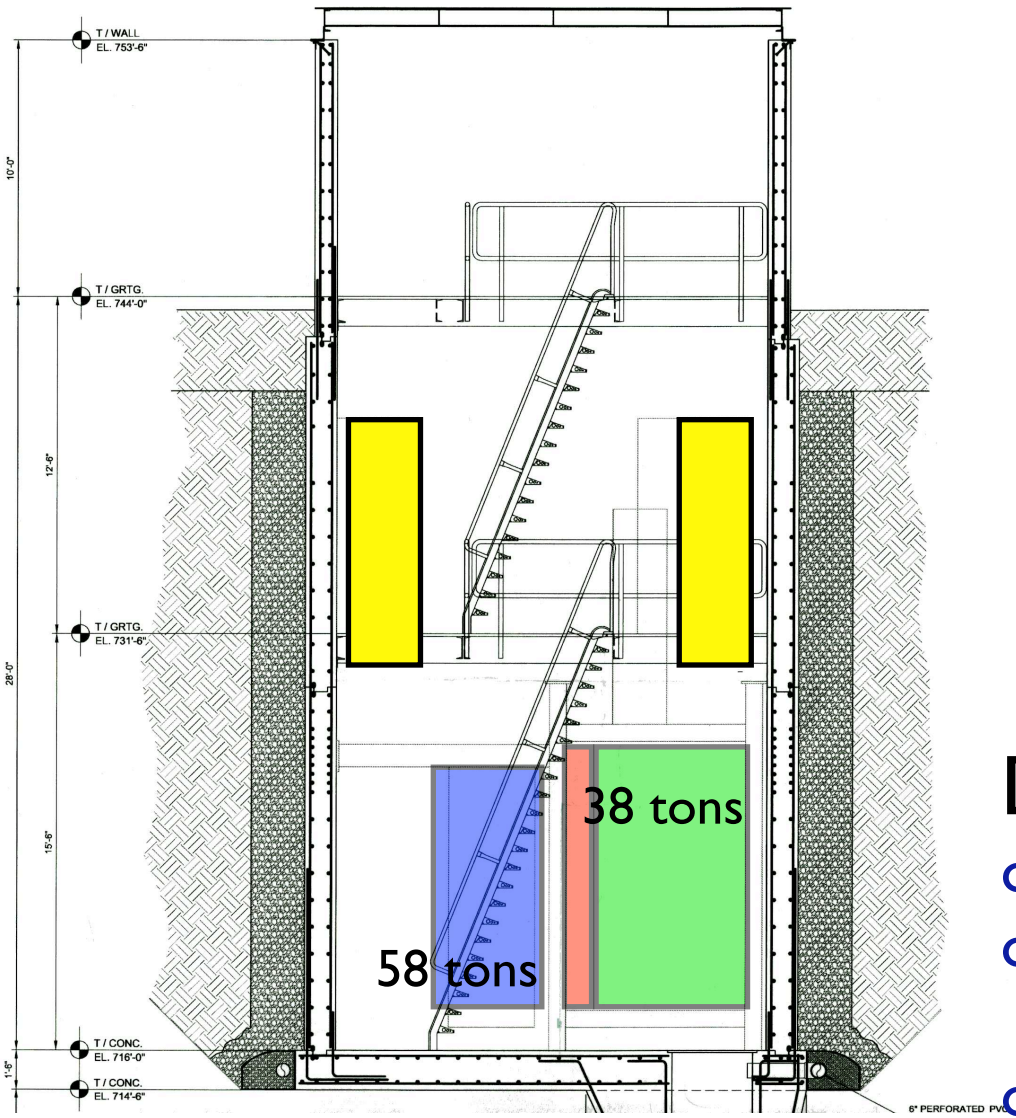
Building Dimensions: 19'x26'x28' deep

SciBooNE Location



SciBooNE Civil Construction

Detector Status

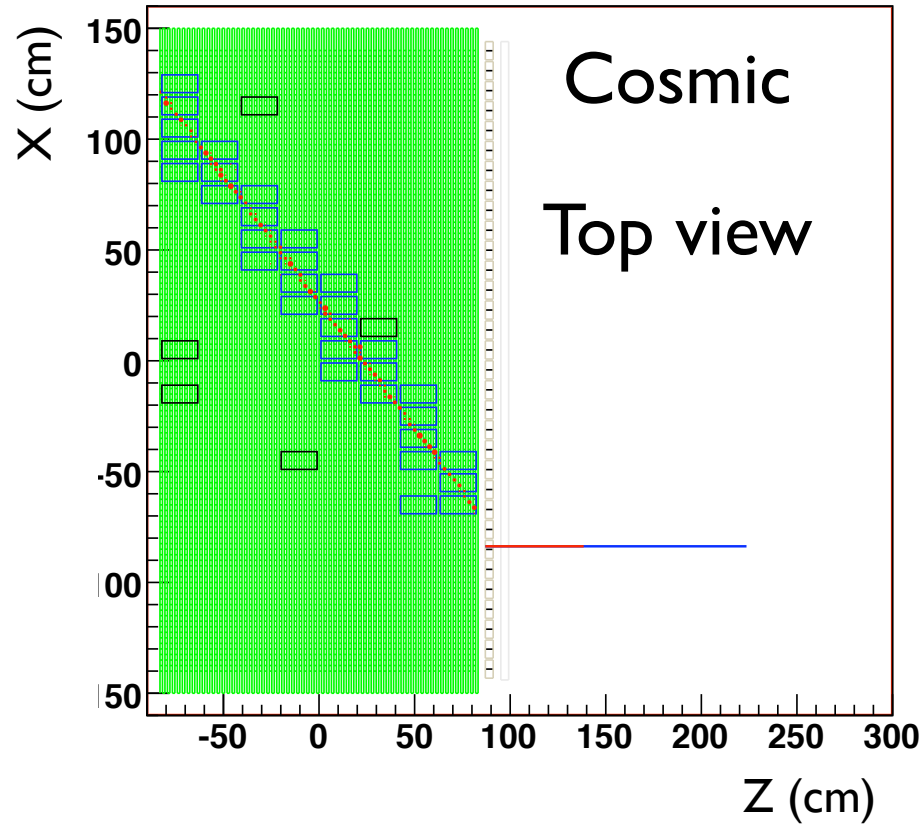


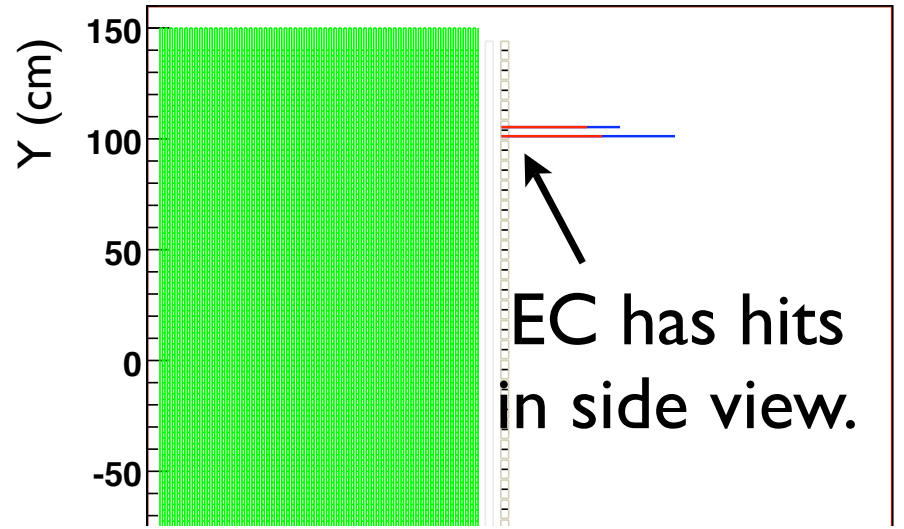
Detectors installed

- Detector cabled
- SciBar HVAC chiller to be connected
- Waiting AD signatures for unattended operations

Calibration/Cosmic Rays

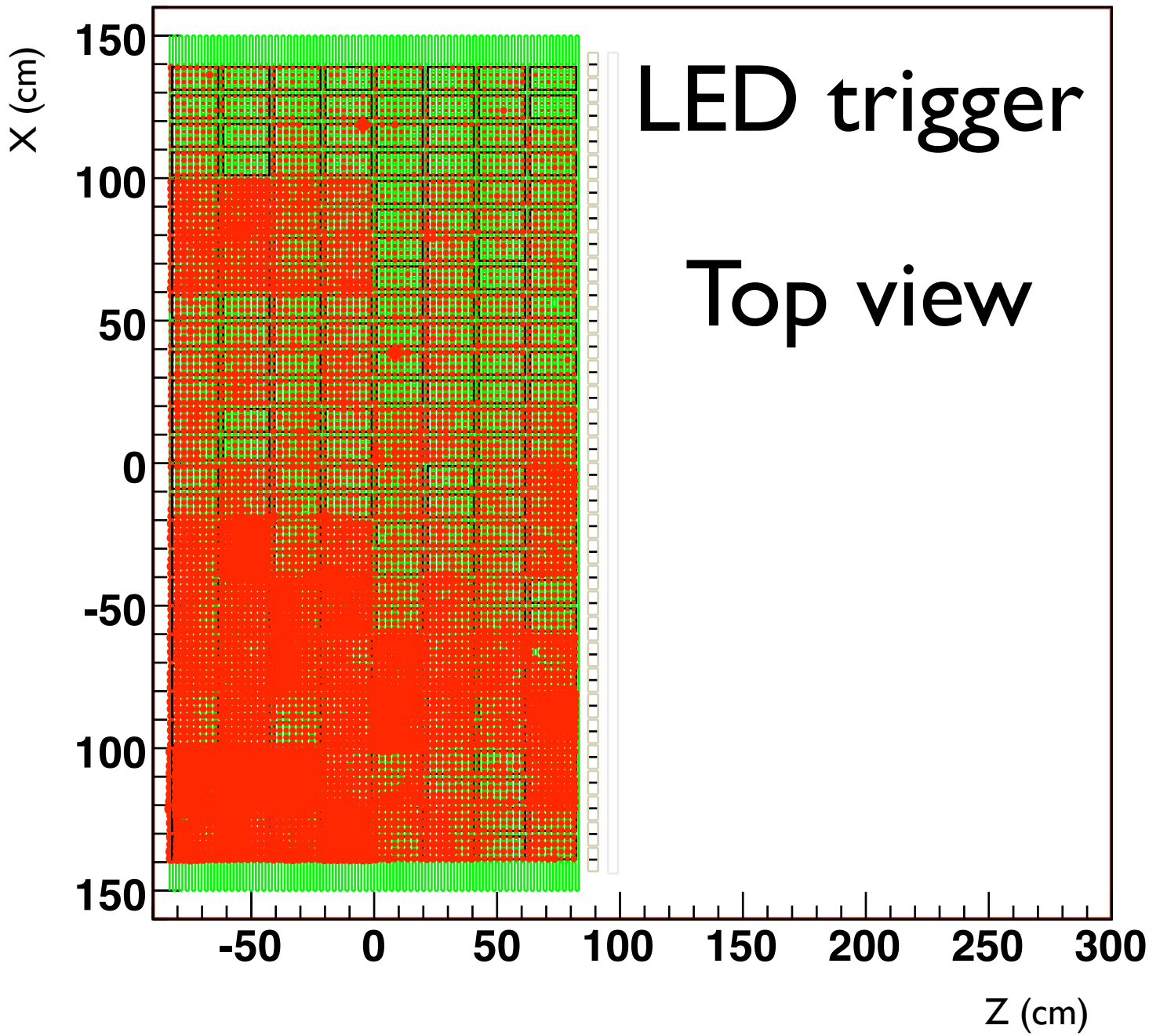
Real data @
SciBooNE hall!





Box: TDC hits
(32ch OR-ed)

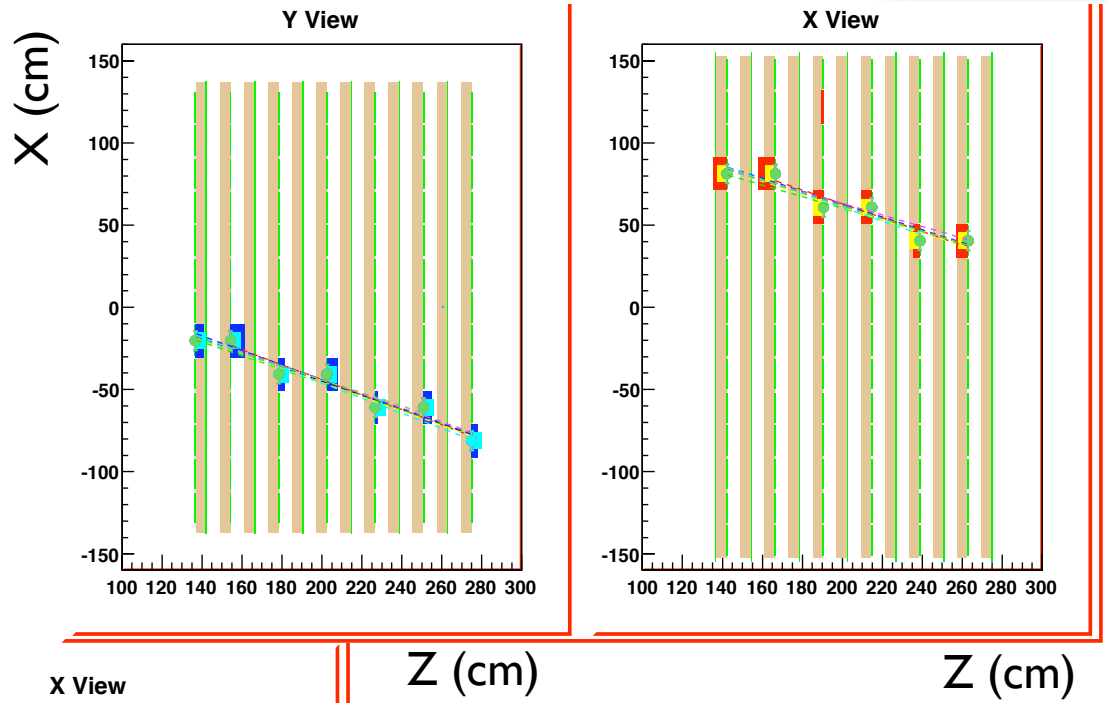
Calibration

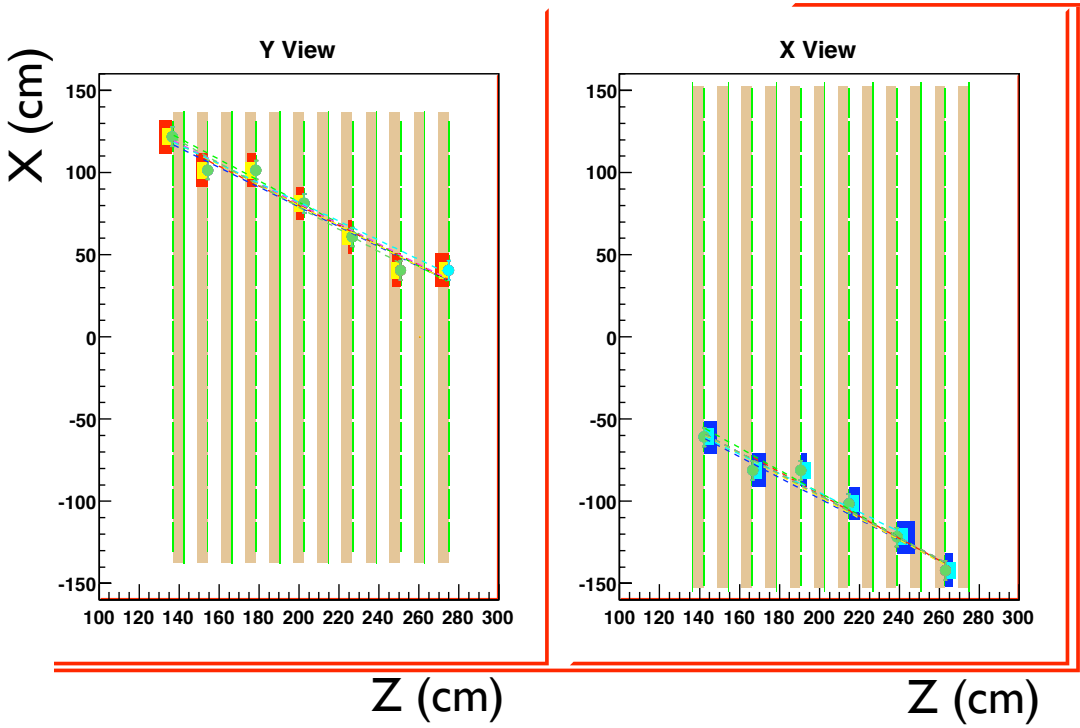


Cosmic Rays

MRD cosmic ray

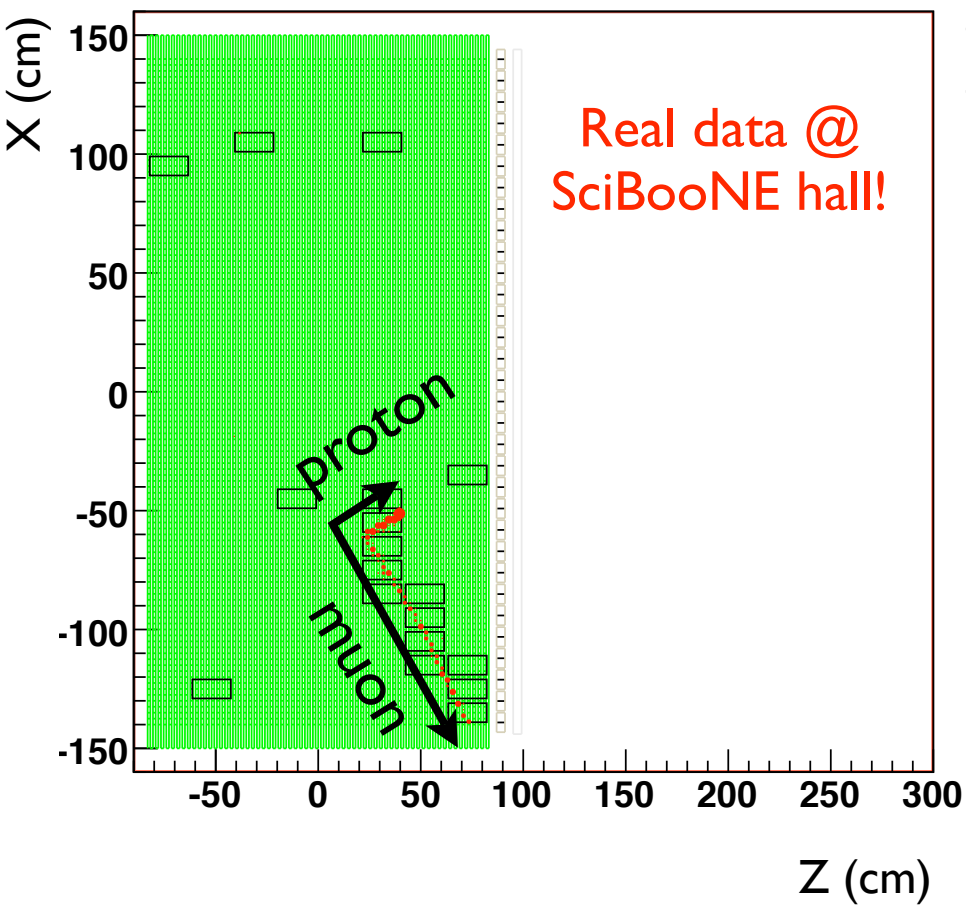
Yellow/light blue: TDC
Red/blue: ADC
Color indicate which side

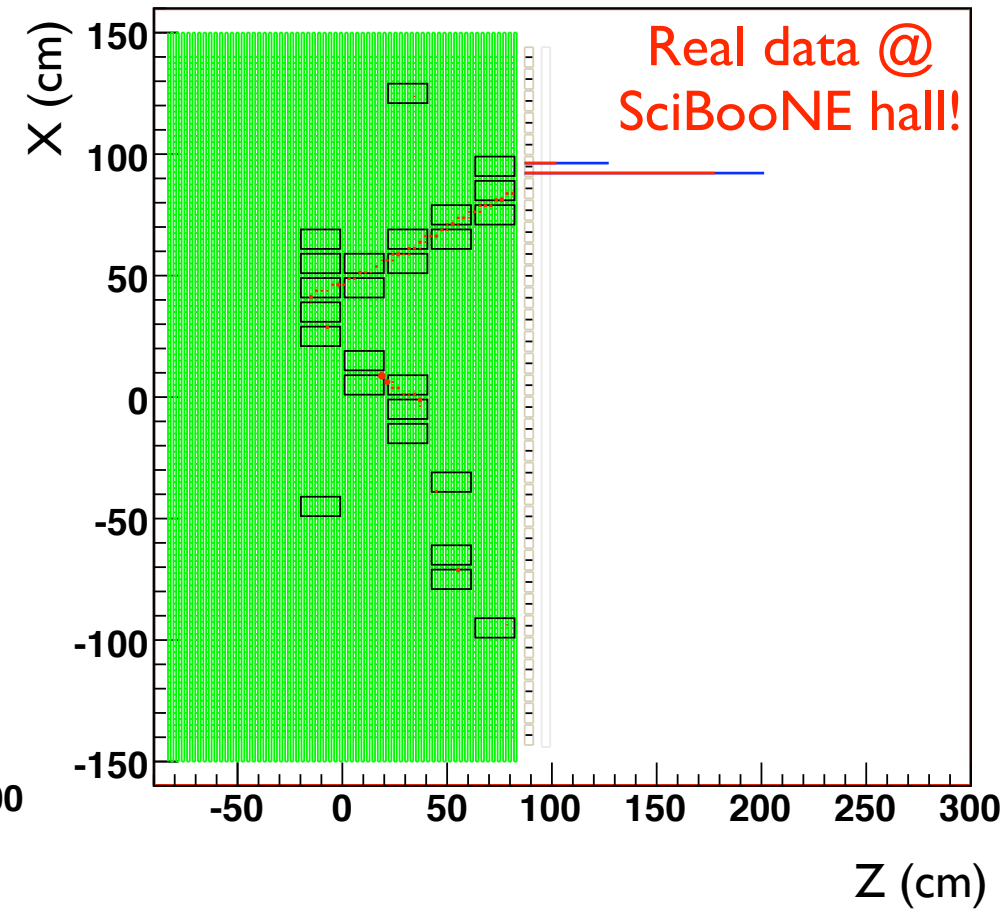




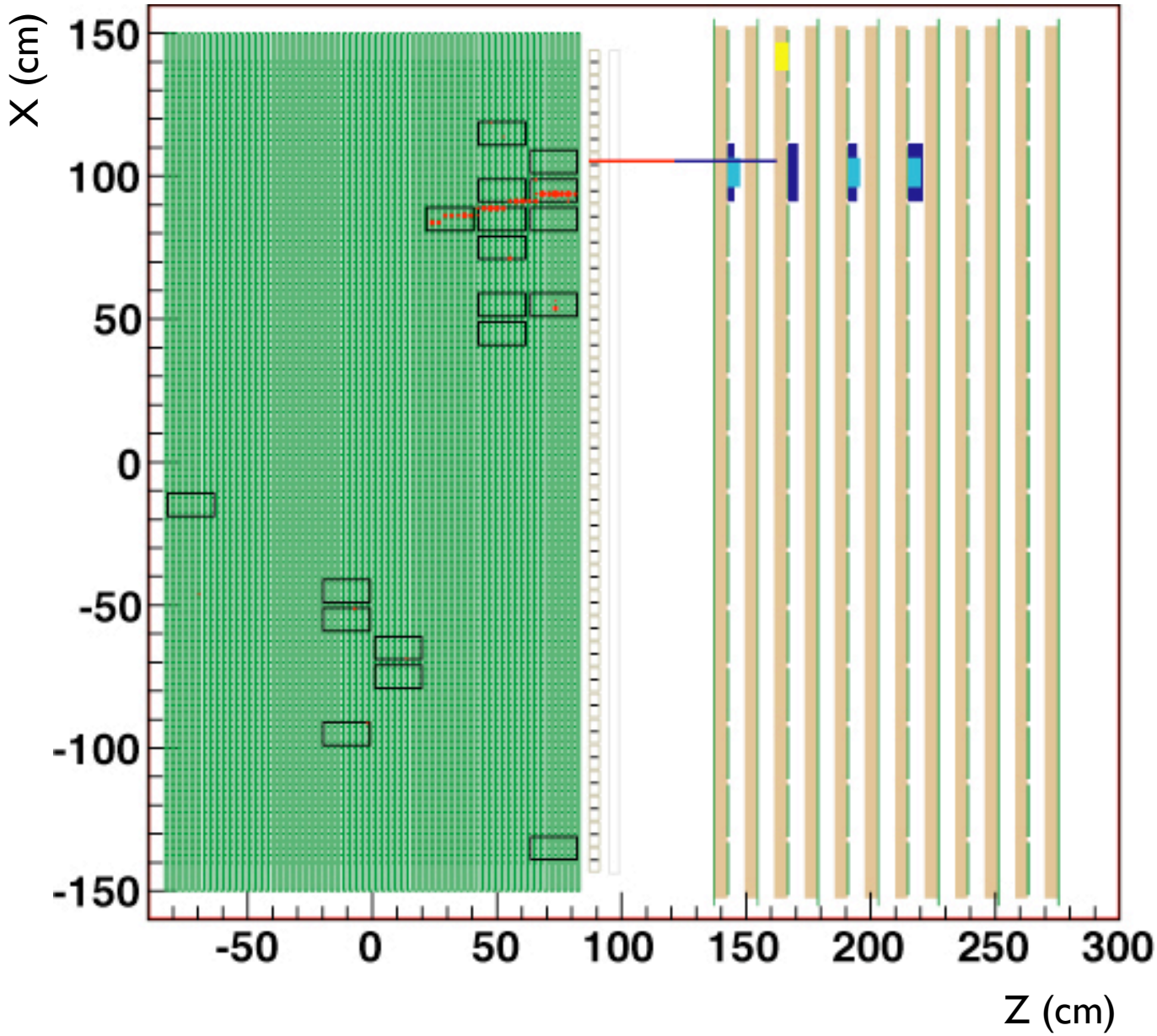
Real data @ SciBooNE hall!

Neutrino Events





All Detectors Together



Experiment Timeline

Task Milestone	Date
SciBar/EC detectors arrive at FNAL	7/21/06
Ground breaking for civil construction	10/02/06
Detector assembly (CDF, Lab 6, Lab F)	7/21/06 - 3/19/07
Building beneficial occupancy	1/29/07
Cosmic ray data (CDF, Lab F)	3/19/07 - 3/30/07
Disassemble detectors	3/30/07 - 4/20/07
Move Detectors & Electronics	4/23/07 - 4/30/07
Re-cable detectors	5/07/07 - 5/25/07
First neutrino events	5/25/07
Experiment commissioning	5/25/07 - 6/18/07
Anti-neutrino running	6/18/07 - 8/06/07
Shutdown	8/06/07 -

Summary

SciBooNE installation complete!

- Detectors installed
- Everything cabled
- Lots of hard work by dedicated group (~ 1 year)

First neutrino events!

Thanks to everyone who helped get us going!

Looking forward to steady running.