# MicroBooNE AEM Report

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#### Supernova Readout and Uptime

MicroBooNE recently commissioned its continuous "Supernova" stream readout, which runs in addition to the triggered readout.

DAQ Uptime remains good.



### MicroBooNE Computing

New Data Cataloged C

0.9 TB











Total Data Cataloged C 4.7 PB

#### **Additional Updates**

- Microboone replaced all of its service boards and added an additional filter for the HV supply.
  - This significantly reduces two dominant sources of noise in the detector with hardware improvements
- Beam timing upgrade has been performed to simplify and improve the beam signals at Microboone
- Supernova stream successfully commissioned and running
- Discussion of Trigger cocktail to be concluded today prior to return of beam balancing required measurements of cosmic background with computing resources.

#### Additional Updates - CRT

- The Cosmic Ray Tagger racks have received ORC and commissioning of the system has begun.
  - Installation of bottom and both sets of side panels is complete.
- Work on the CRT system continues during beam running. We anticipate no issues with detector stability while the CRT is commissioned.
  - Anticipate approximately two weeks of work after beam returns

#### Additional Updates - Misconfigured Feed Through

One half of one feedthrough in the detector is misconfigured. This manifests as a lower-gain set of channels. This is correctable in software with a targeted deconvolution, so we have opted to not attempt a hardware fix at this time.



#### **Current MicroBooNE Status**

- Drift High Voltage running at 70kV uninterrupted since last Tuesday (10/4/16), and with only brief downtime since 9/30/16.
- PMT system is on and running.
- 2 shifters per 8 hour period since Monday, 10/3/16.
- Purity is high (> 6ms) with nearline monitoring running smoothly.

## **MicroBooNE is ready for beam!**