MicroBooNE Progress

All Experimenters' Meeting

Fermilab
2013.07.08

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MicroBooNE

PMT's view LAr through sense wires

LAr Time Projection Chamber

Booster Neutrino Beam
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LAr Test Facility with LAr cryo & filtering
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Cryostat
- delivered
- opened
- modified
  inside & out:
  - rails
  - sensors
  - feedthroughs
  - cleaning
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Before

PMT racks cleaned

After
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8256 sense wires in 3 planes
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TPC test-fitted in cryostat

Tensions measured by plucked resonance
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50 motherboards w/ ASICs in 11 feedthroughs

Mother Board

Induction Channels

Collection Channels

BNL-designed ASICs amplify & shape pulses

Reception tests to put them through their paces...
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MicroBooNE Reception Tests
(TPC readouts)
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LAr Test Facility
'LArTF'
MicroBooNE Purification System
Giant foam cradle in place at LarTF

Plumbing assemblies from Lab F staging & work grounds, quickly taking final positions.
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...and one really giant compressor!

(Disassembled, cleaned, and delivered intact)
Lots of progress on many fronts:

Facility
Cryo & Filtering
Optical System
HV (not shown this talk)
and TPC Readout Electronics & DAQ

MicroBooNE will be ready for beam in 2014!

THANK YOU!