NOvA Experiment Status

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All Experimenter’s Meeting, November 11, 2013
Far Detector Progress

NOvA Far Detector Assembly Progress

Status Date: 04NOV13

The Intensity Frontier

14 kilotons = 28 NOvA Blocks

24 blocks of PVC modules are assembled and installed in place
19.22 blocks are filled with liquid scintillator
4.34 blocks are outfitted with electronics
Filling block 19 (20th block) vertical modules. Install APDs for DCM-03-02

Tuesday (11/12): Begin filling block 19 top up
Install APDs for DCM-03-01

Wednesday (11/13): Begin filling block 20
Event at FarDet
FarDet – DAQ Uptime

NOvA FarDet DAQ Uptime vs Time

<table>
<thead>
<tr>
<th>Partition 1</th>
<th>Partition 2</th>
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<tbody>
<tr>
<td>$\chi^2 / \text{ndf}$: $0.7944 / 9$</td>
<td>$\chi^2 / \text{ndf}$: $0.5142 / 7$</td>
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<tr>
<td>$p_0$: $0.7129 \pm 0.2670$</td>
<td>$p_0$: $0.6831 \pm 0.2922$</td>
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DAQ uptime Partition 1

DAQ uptime Partition 2
POT Fraction Partition 1

POT Fraction Partition 2
FarDet POT Exposure

**Daily and Integrated POT exposure** for last week

* POTs for 2 diblocks of fully-instrumented detector
Summary

- **NDOS Prototype** running smoothly, useful for testing of software/firmware/monitoring upgrades before rolling out at FarDet – test of new FEBs for Near Detector
- **NDSBTest** (Near Detector Surface Building Test) 30 APD test stand for cooling/monitoring tests of APDs
- **FarDet** – 2 diblocks running cold at full gain – very smooth running, 24th block (out of 28) in place – new APDs installed and running at full gain, warm settings – low hit rates so far
- **NearDet** – ½ of the Near Detector blocks are in place – finish in early January 2014, scintillator filling to start immediately after