NOvA Status
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NDOS Operations
Near Detector Construction/Installation
Far Detector Installation/Outfitting
Far Detector Commissioning
NDOS Operations

• Prototype ND (NDOS) transitioning to role as a real data test stand
  – DAQ modifications and upgrades
    • Preparation for multiple DAQ operations
    • Pattern Data mode for additional HW tests
    • DAQ configuration from database
  – Tests of firmware upgrades before installing on the Far Detector
  – Tests of software upgrades, e.g., Database modifications/additions
  – NDSBTest -> 30 APDs (960 channels) in FD configuration

• Cosmic data-taking always when not in test mode
Near Detector Construction/Installation

- 8 Blocks (576 modules in 192 planes of 3 modules each)
- muon catcher (28 modules in 11 planes w/steel absorber)

ND Module fabrication started at UM factory - first ND module delivery to Fermilab ~Mar 15
Occancy of ND hall ~May 1, commissioning starts ~Sep 1
Far Detector Installation/Outfitting

- 8 Blocks (32 alternating vertical/horizontal layers each) in place
- 9th Block to be installed this week
- First Diblock (Blocks 0, 1) filled with liquid scintillator, filling of 2nd Diblock proceeding
- 64 APDs installed on 1st diBlock
Far Detector Commissioning

• Recent 2-day workshop held to evaluate readiness for commissioning
  – Control Room screen configuration proposed and tested
  – Successful running of Pedestal Runner at FD (used to set individual channel thresholds)
  – Overnight run of Pattern Data on FD (DCMs w/o APDs) was successful
  – Developed commissioning checklist from NOvA monitoring programs using overnight run
    • Ganglia, Memory Viewer, Online Monitoring, Event Display, DCS, Nearline monitor

• DAQ made ready for first runs w/APDs
First Data from Far Detector

- Installed 64 APDs on 2 DCMs
- Tested dry gas and chilled water systems
- Setup/debugged initial control/checkout software
- See first light data in Ash River Diblock 1
More Tracks

Coincidences in 2-views
Far Detector Commissioning Schedule

• FD commissioning starts Mar 11 on detector elements in the 1st Diblock
• Weekday daytime shifts are scheduled Mar 11 – > June 1 to record and evaluate overnight commissioning runs
• After a successful commissioning run, new detector elements will be added to the increasing detector size recording CR data runs
• Anticipate at least 1/5 of FD taking data by NUMI beam return June 1
NO\text{v}A Summary

• NDOS functioning as DAQ, control systems test facility
• Near Detector module construction started, installation to begin \sim May 1
• Far Detector installation \sim 1/3 complete
• First tracks seen in FD 1\text{st} Diblock
• Far Detector commissioning runs to start Mar 11 during weekday daytime shifts