



# NOvA experiment report

## Update on NOvA operations

**Ashley Back**

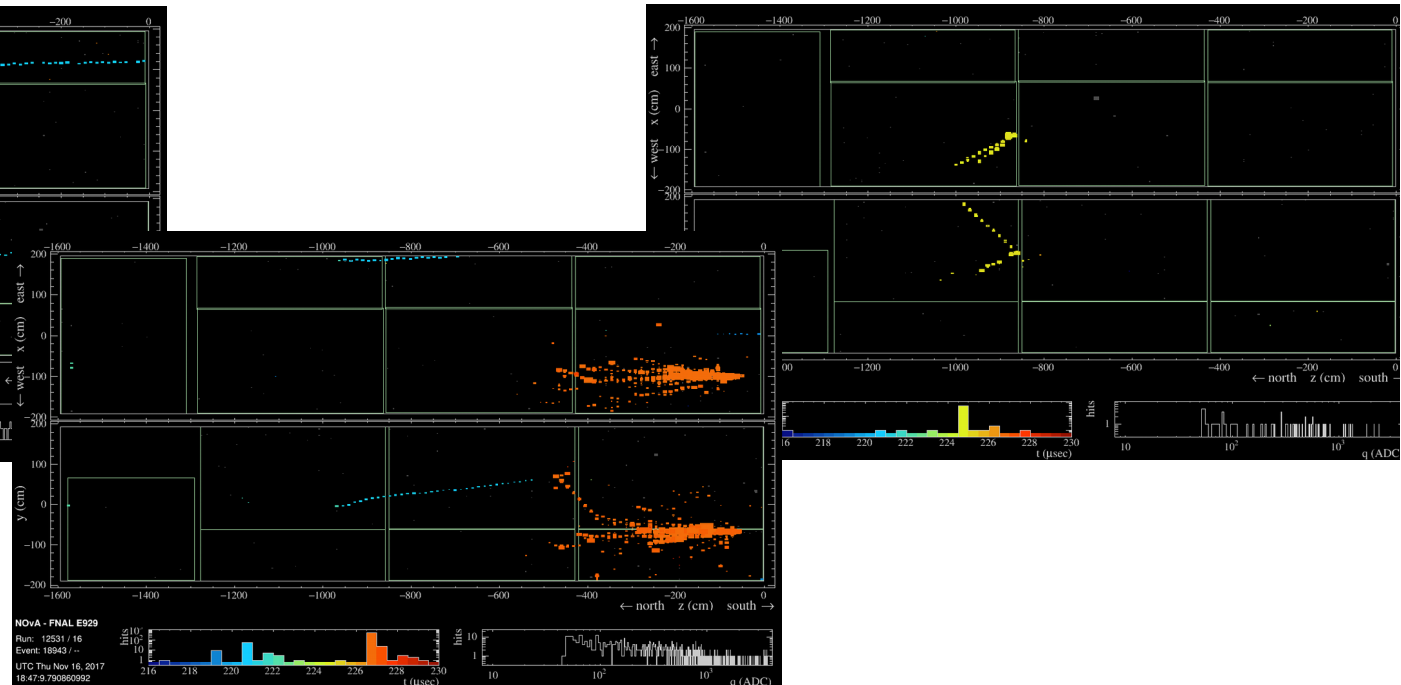
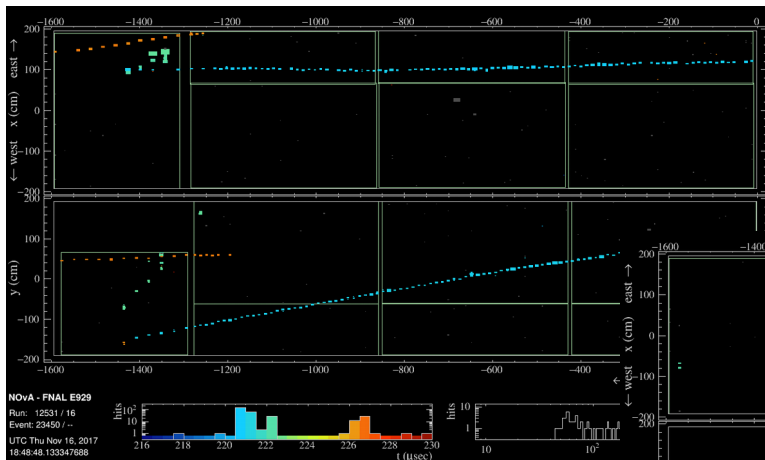
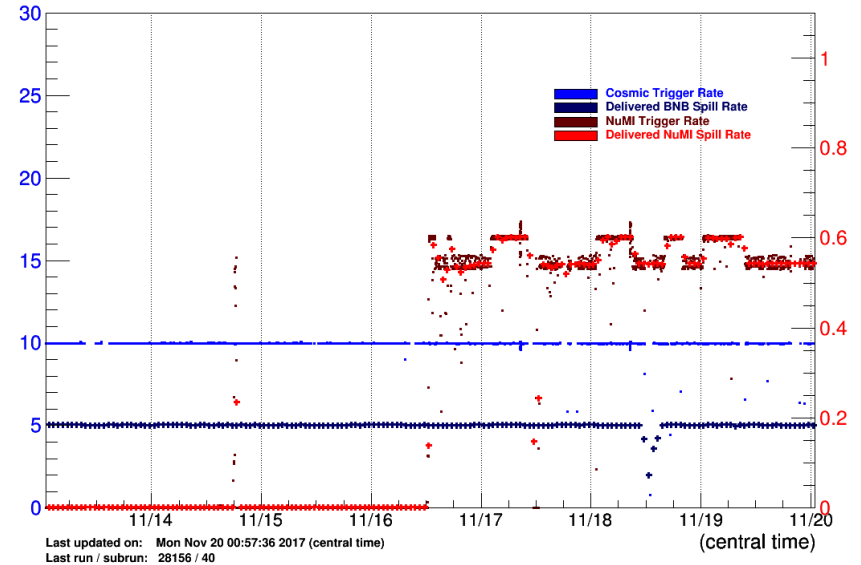
Iowa State University

20 November 2017

# Return of beam

- Delivered POT since Thursday
- Some ND event displays from NuMI spill triggers
- Thank you to all in AD who have helped deliver beam

Average Trigger and Spill Rates (Hz) - partition 1



# Computing summary

Average Jobs Running Concurrently

5110

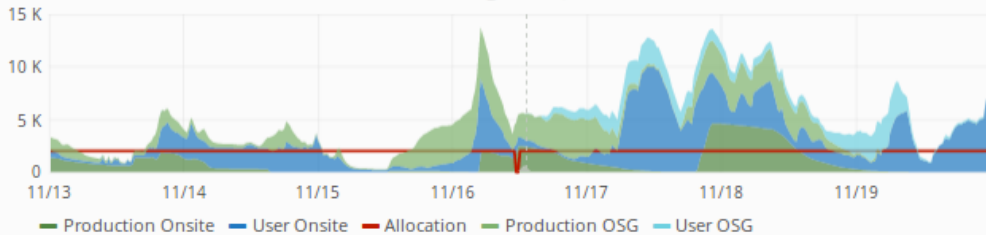
Total Jobs Run

284890

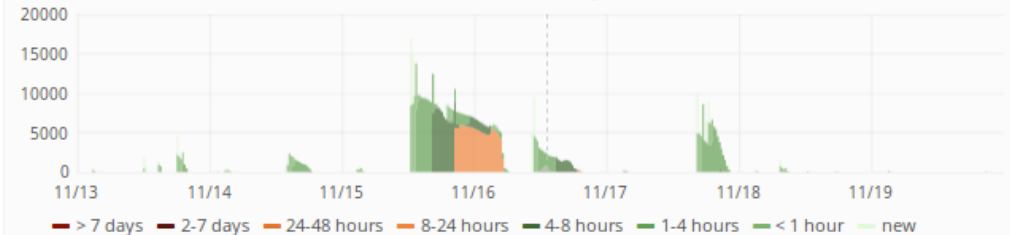
Average Time Spent Waiting in Queue (Production)

4.138 hour

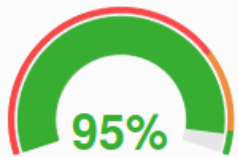
Running Batch Jobs



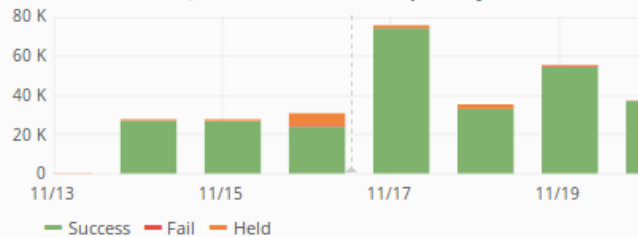
Queued Production Jobs by Wait Time



Job Success Rate



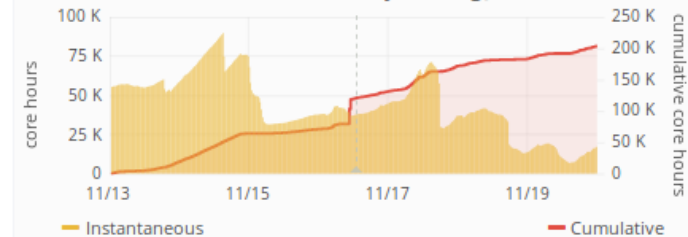
Job Success & Failures per Day



Overall CPU Efficiency



Total Time Wasted by Running Jobs



New Data Cataloged

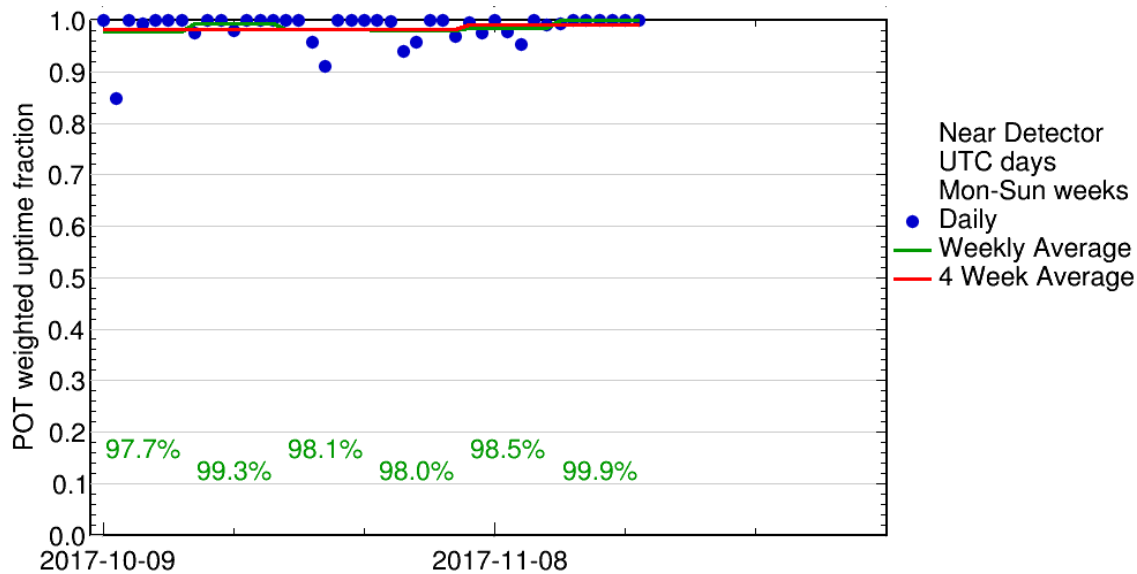
3.0 TB

Total Data Cataloged

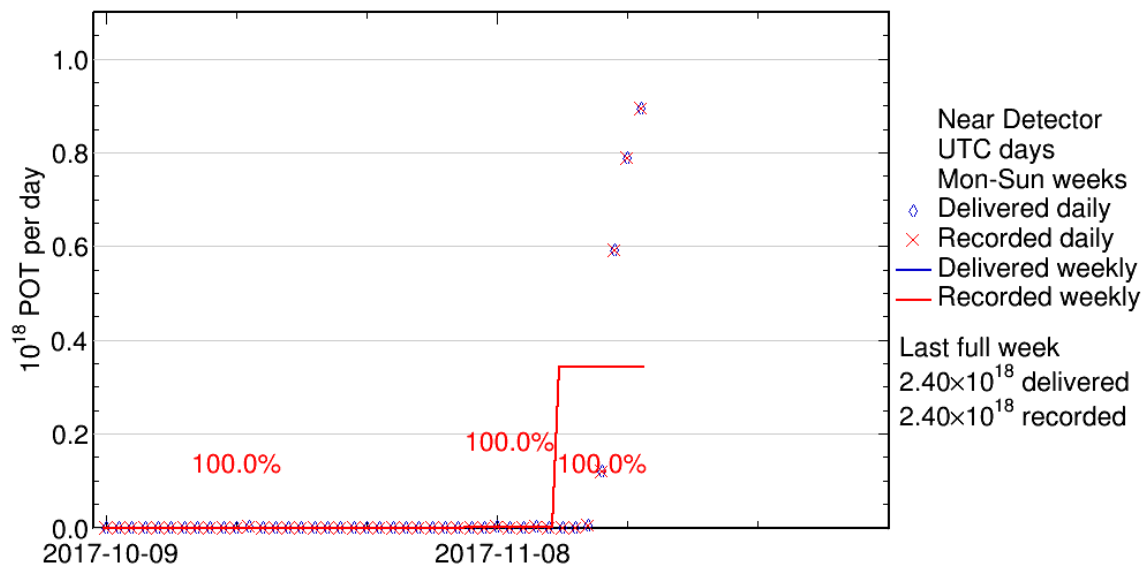
13.4 PB

- Winter production campaign began last week.
- Inefficiency peak through 11/15 due to user jobs requesting files in failed dCache persistent storage (resolved by Storage 11/17). (11/18 inefficiency due to user jobs over non-cached files.)
- Heavy user grid use continues (W&C in Dec)

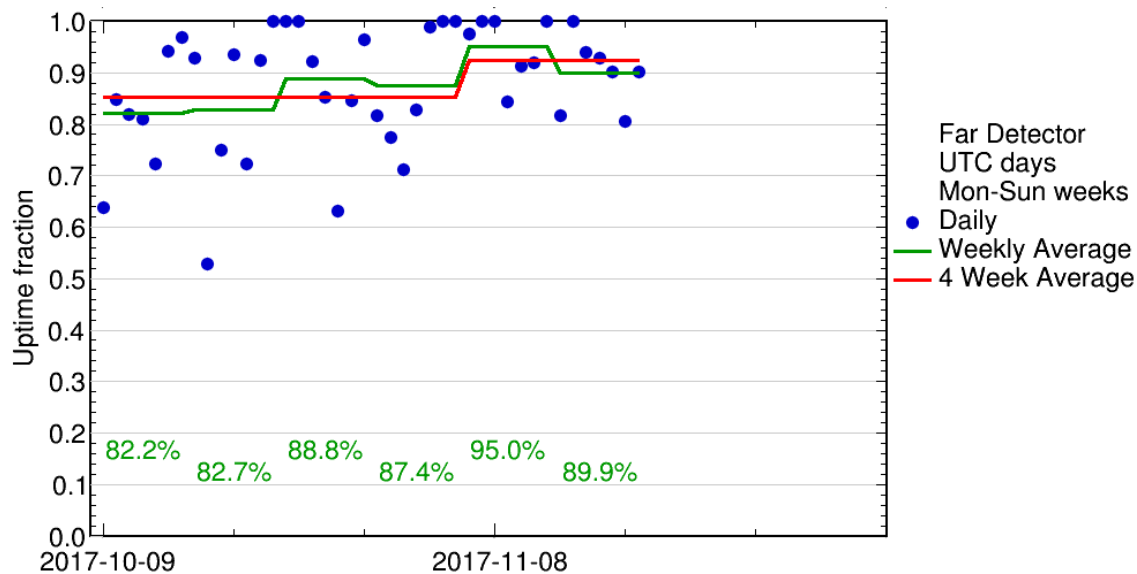
# ND summary



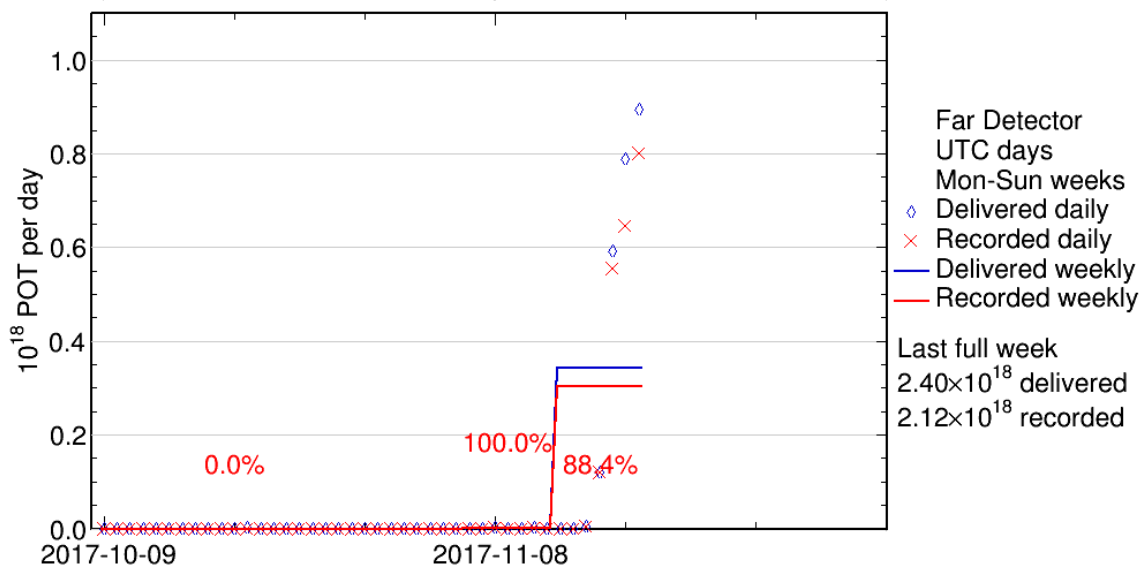
- Running smoothly!



# FD summary



- Stability issues end of last week and over the weekend
- Total downtime: 19 h 40 mins



- Planned: 5 h 30 mins
- Unplanned: 14 h 10 mins
- Uptime excluding planned downtime: 91.54 %
- **14 crashes this week**
- **11 during beam**

# FarDet instabilities

- What we know so far...
  - Our scripts that clean up DAQ processes are not catching everything we expect them to
  - We may have a memory leak issues in our farm nodes or concentrator modules
  - There could be a correlation with the network instability we saw the week before
- We have a plan for the next three days to systematically investigate these