



NOvA experiment report

An update of NOvA operations week of 03/06

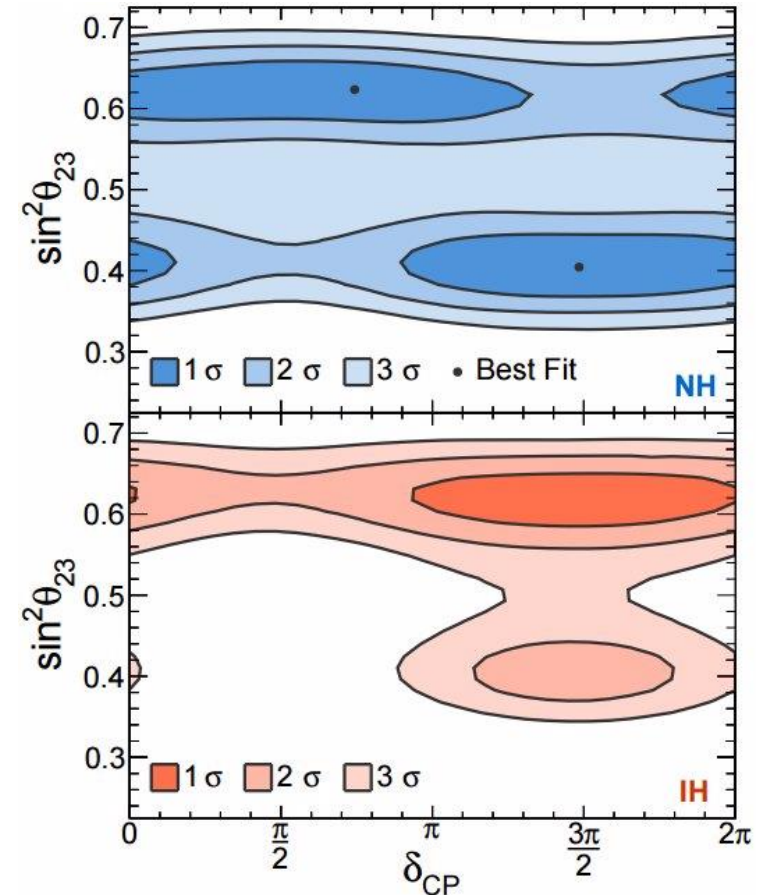
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03/13/2016

NOvA paper "*Constraints on oscillation parameters from ν_e appearance and ν_μ disappearance in NOvA*" on arXiv (March 9th) and submitted to PRL

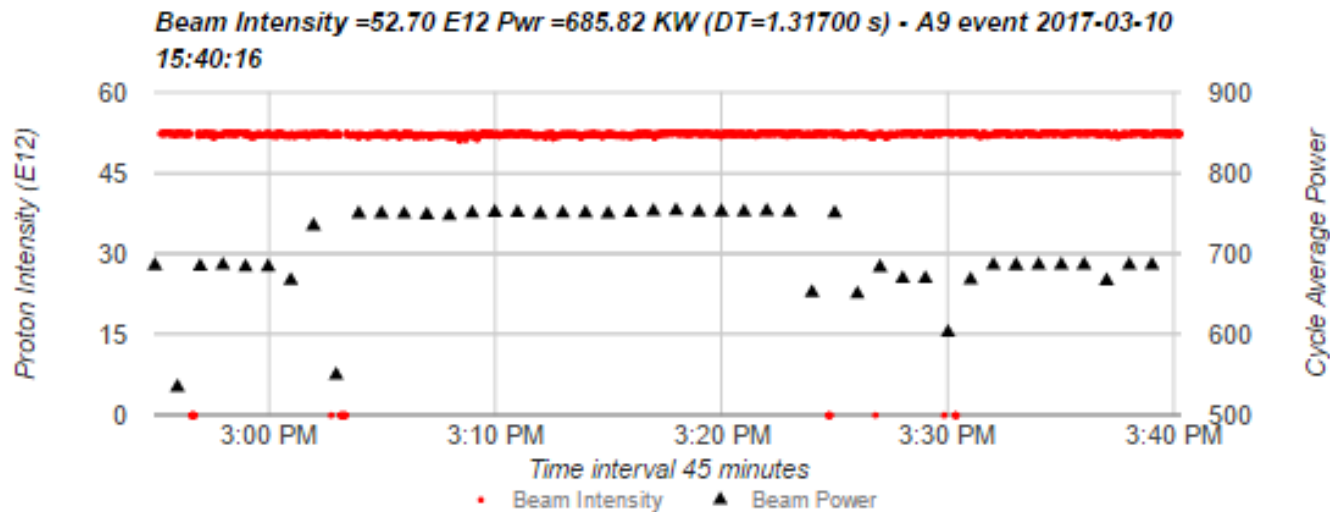
- <https://arxiv.org/abs/1703.03328>
- IH with ϑ_{23} in the lower octant disfavored at greater than 93% for all values of δ_{CP}



Following hot on the heels of:
"*Measurement of the neutrino mixing angle ϑ_{23} in NOvA*" on arXiv (Jan 20th) and accepted by PRL

- <https://arxiv.org/abs/1701.05891>
- Awaiting PRL publication

Congratulations and thanks to everyone involved!



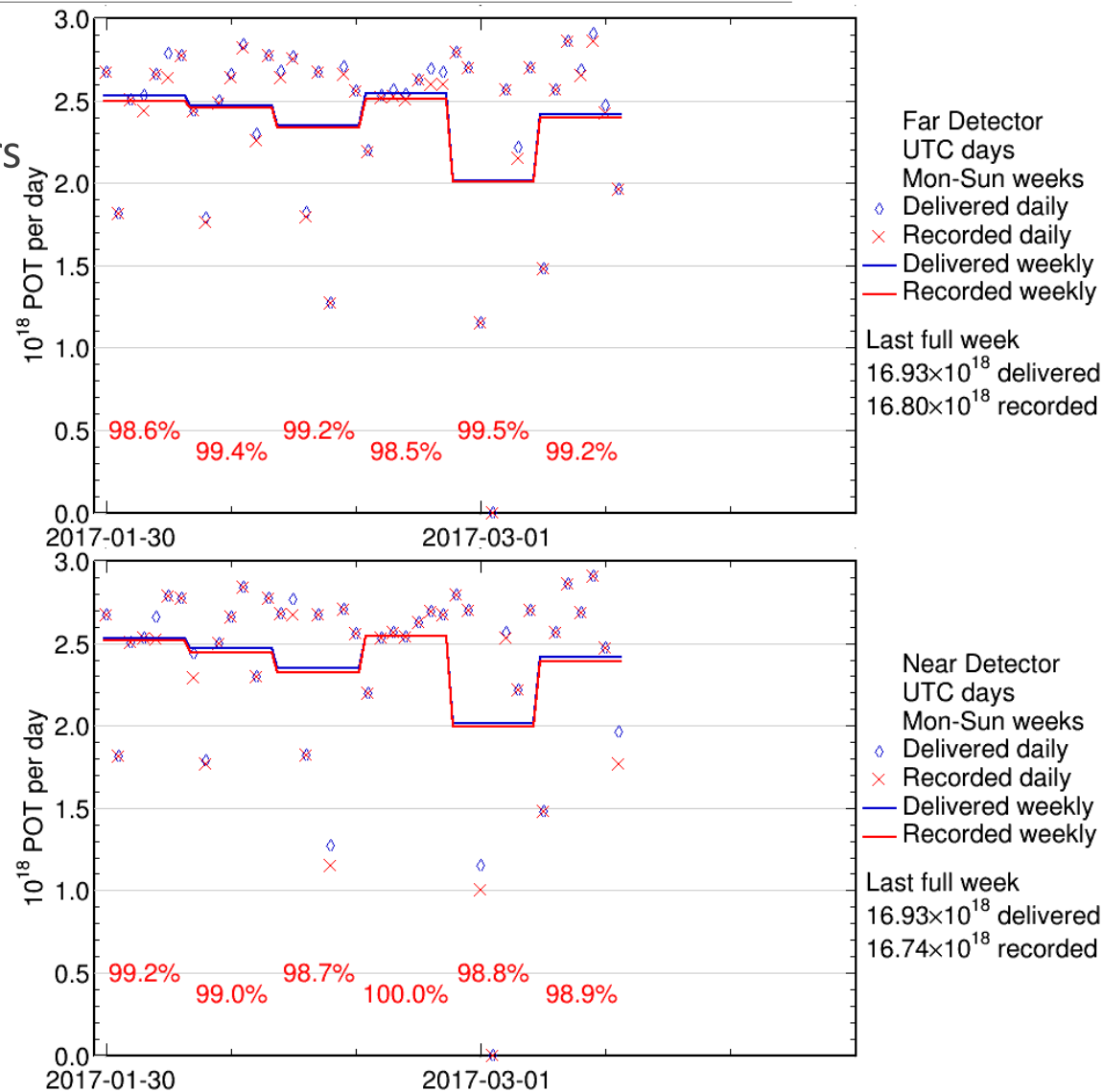
We observed a 750 kW maximum beam power for ~20 minutes on Friday 10th March
And beam power at ~690 -700 kW through the weekend!

DAQ Status and Uptime

Excellent uptime for both detectors

○ **99.1% POT-weighted uptime for last 4 weeks (FarDet)**

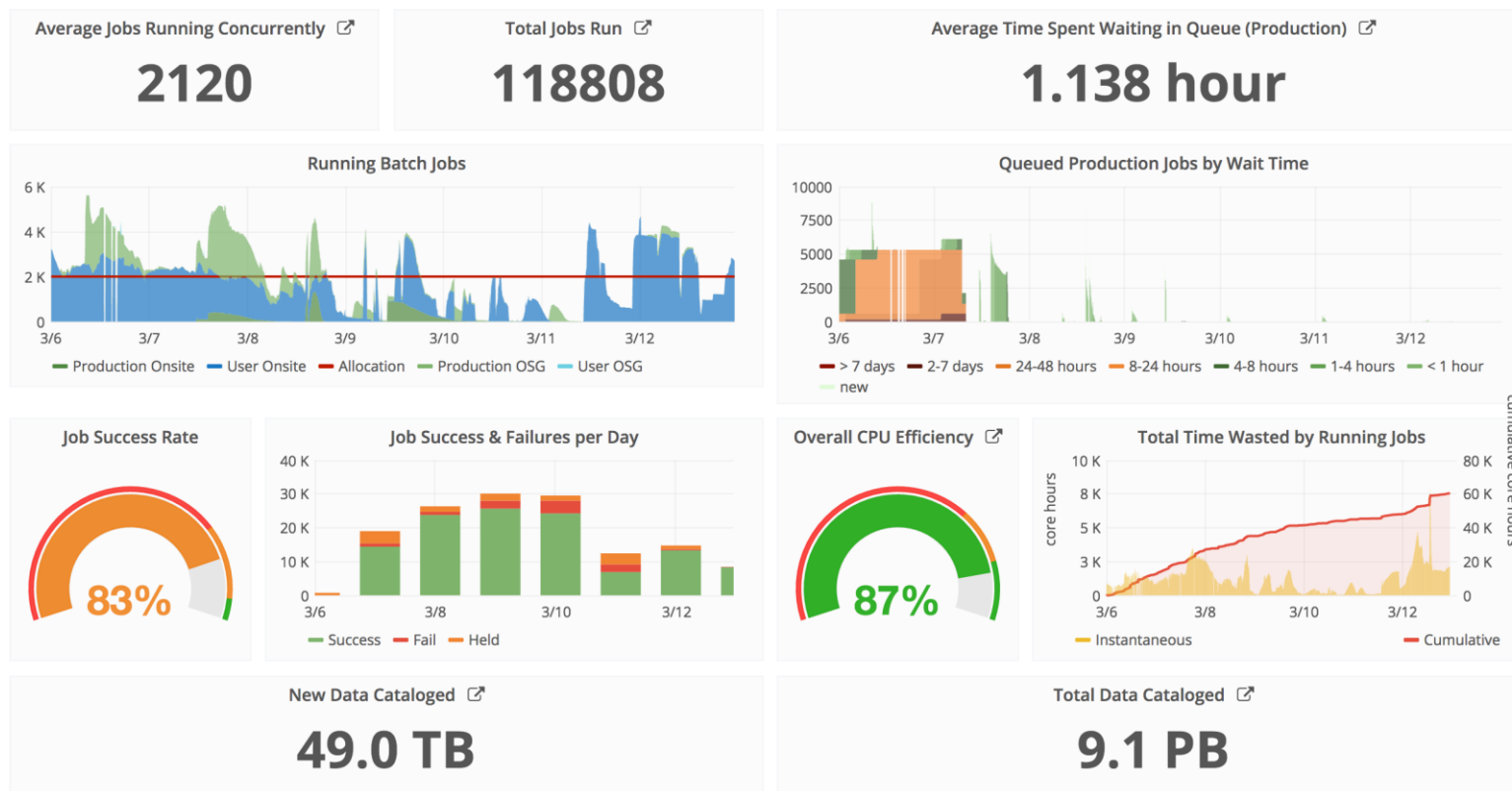
○ **99.1% POT-weighted uptime for last 4 weeks (NearDet)**



Computing: Last Week



NOvA Computing Summary



ND data processing complete.

- Worked out a few kinks with our first sample.

MC production has been slow to get started, but we are hoping to begin in the next day or so.