



NOvA experiment report

An update of NOvA operations week of 03/06

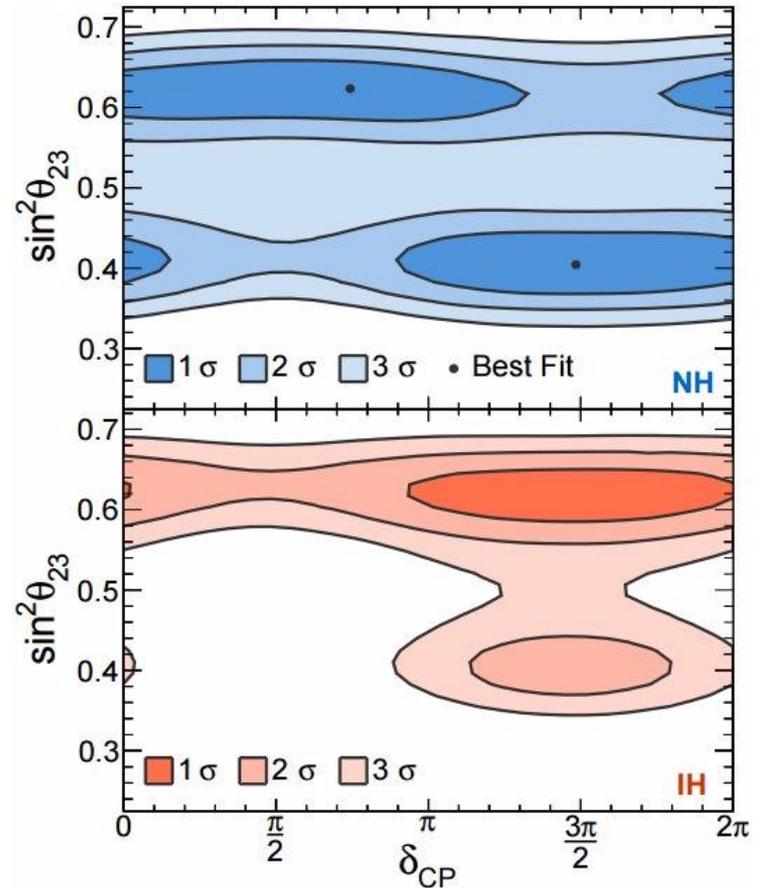
GAVIN S. DAVIES

INDIANA UNIVERSITY

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}

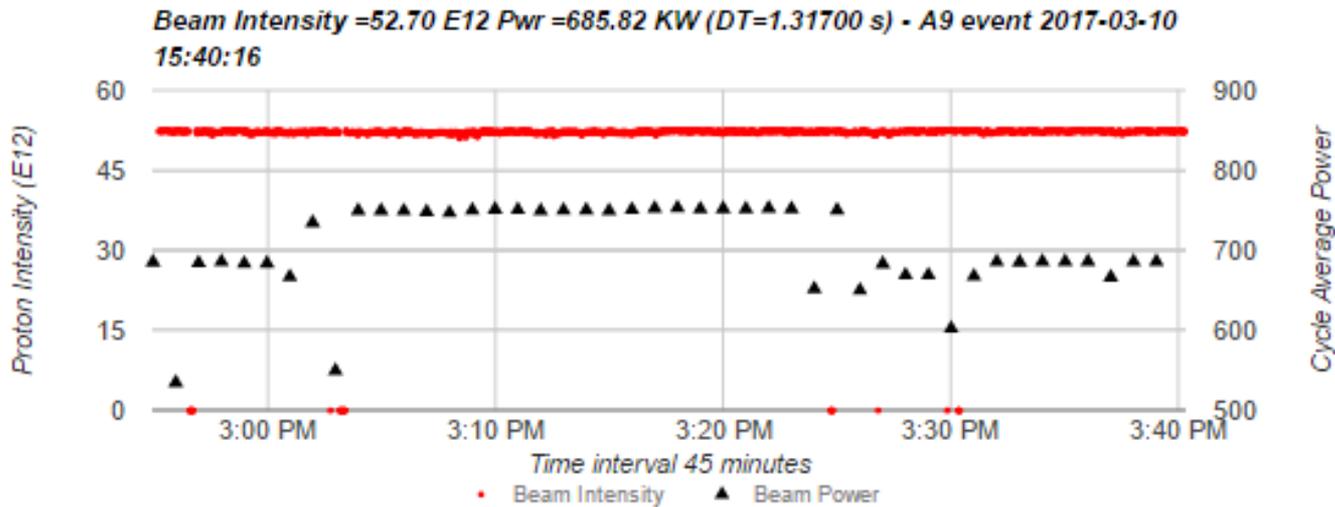


Following hot on the heels of:
"*Measurement of the neutrino mixing angle ϑ_{23} in NOvA*" on arXiv (Jan 20th) and accepted by PRL

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

Beam

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!

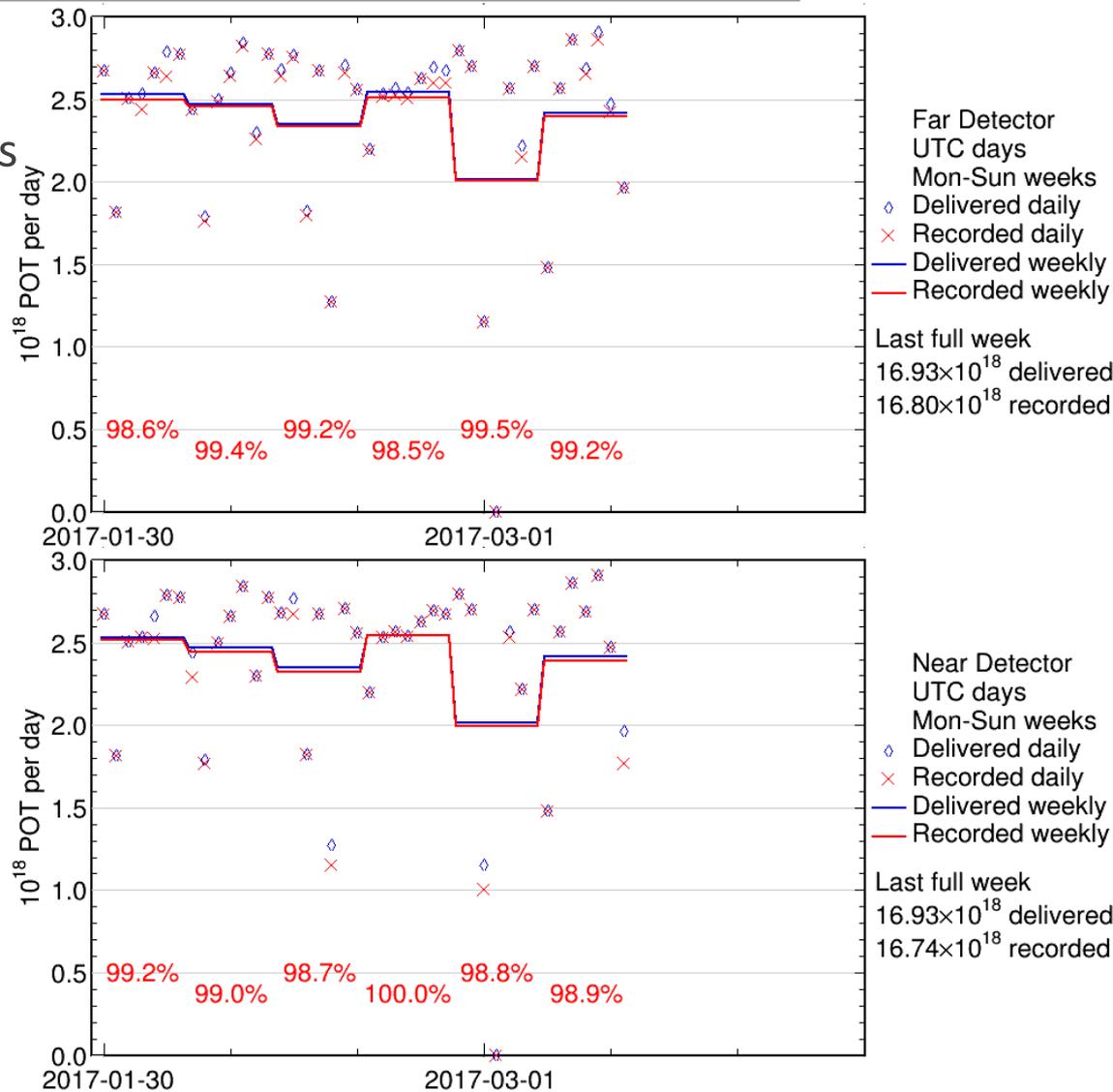
DAQ Status and Uptime



Excellent uptime for both detectors

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

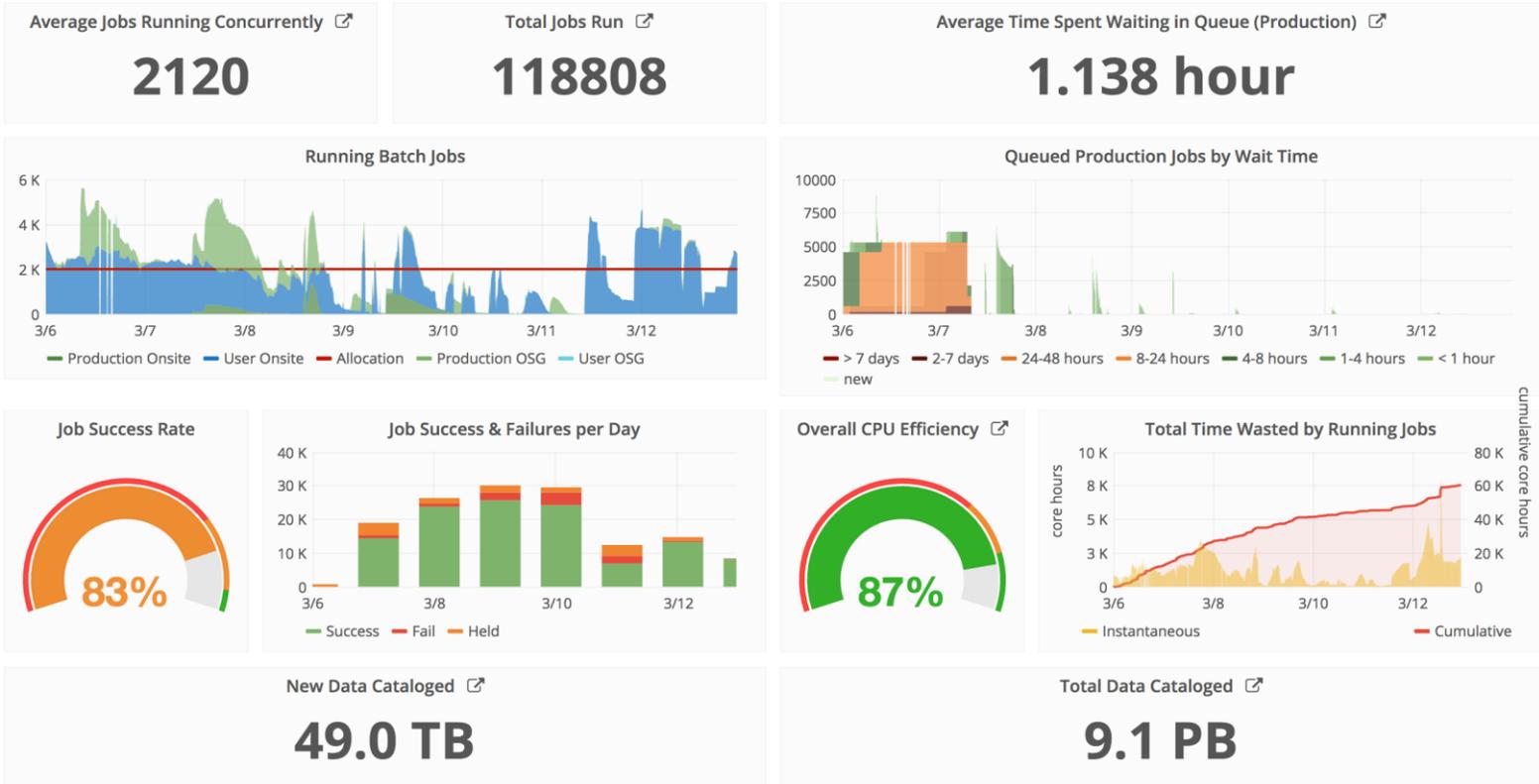
○ **99.1%** POT-weighted uptime for last 4 weeks (NearDet)



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.