NOvA Experiment Status
All Experimenter's Meeting

Jaroslav Zalesak, Institute of Physics, Prague/FNAL

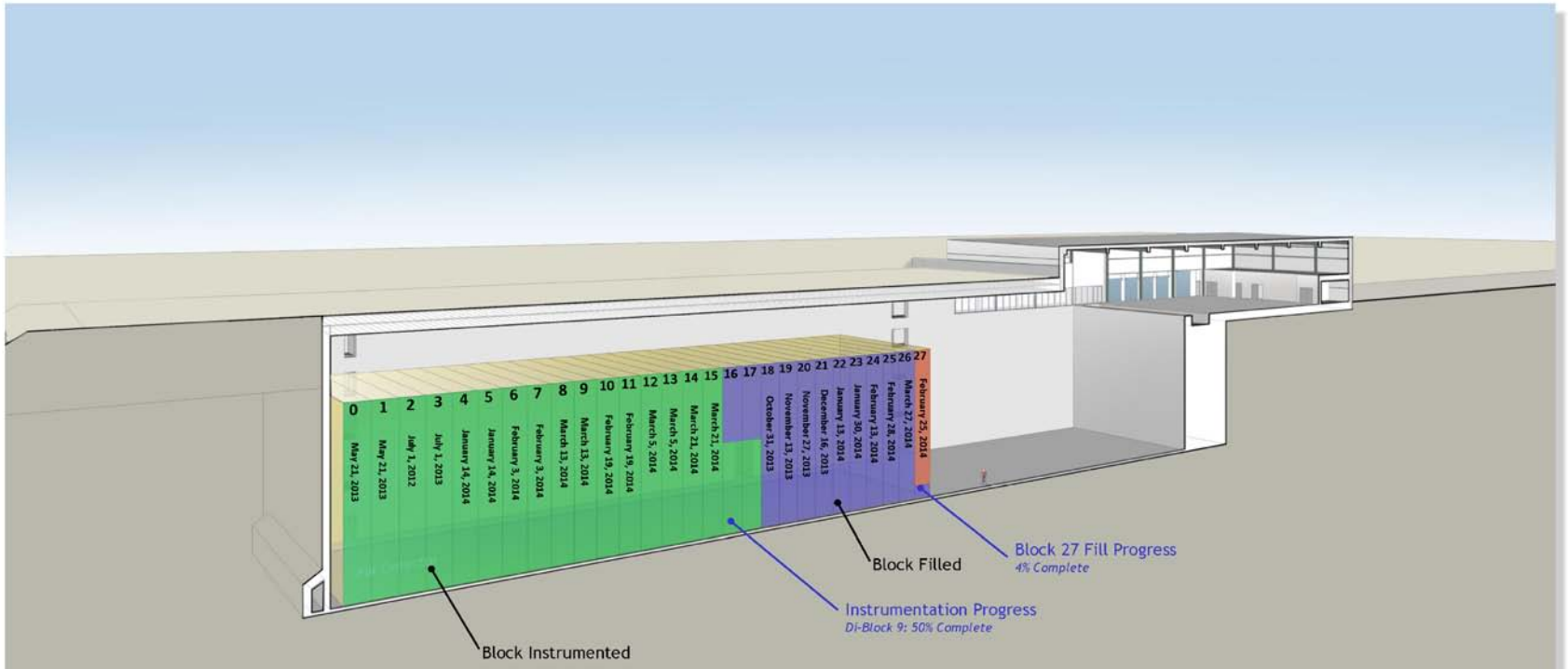
March 31, 2014

FD: Detector Assembly Progress

The Intensity Frontier

NOvA Far Detector Assembly Progress

Status Date: 31MAR14



14 kilotons = 28 NOvA Blocks

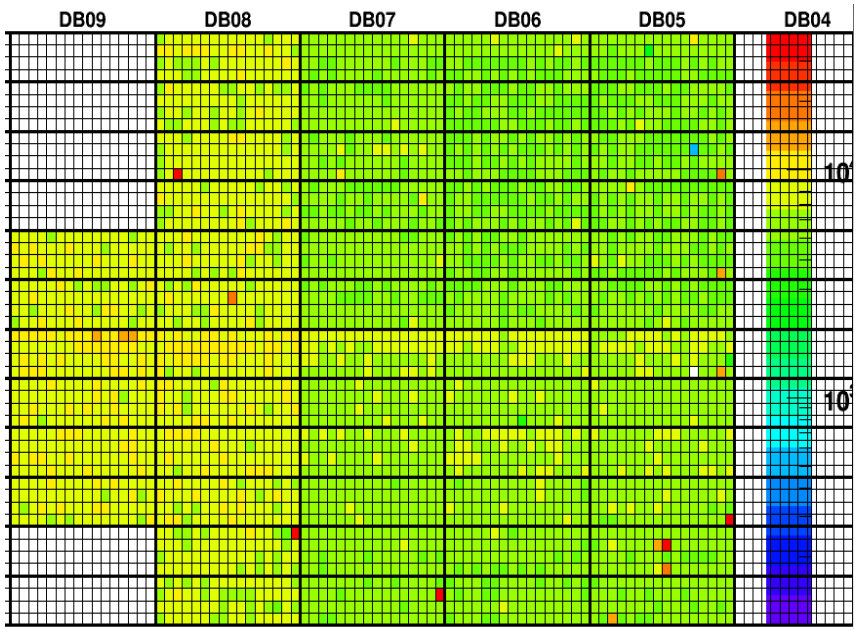
28 blocks of PVC modules are assembled and installed in place

27.04 blocks are filled with liquid scintillator

17.00 blocks are outfitted with electronics

50% cooled down

FarDet: Data-Taking

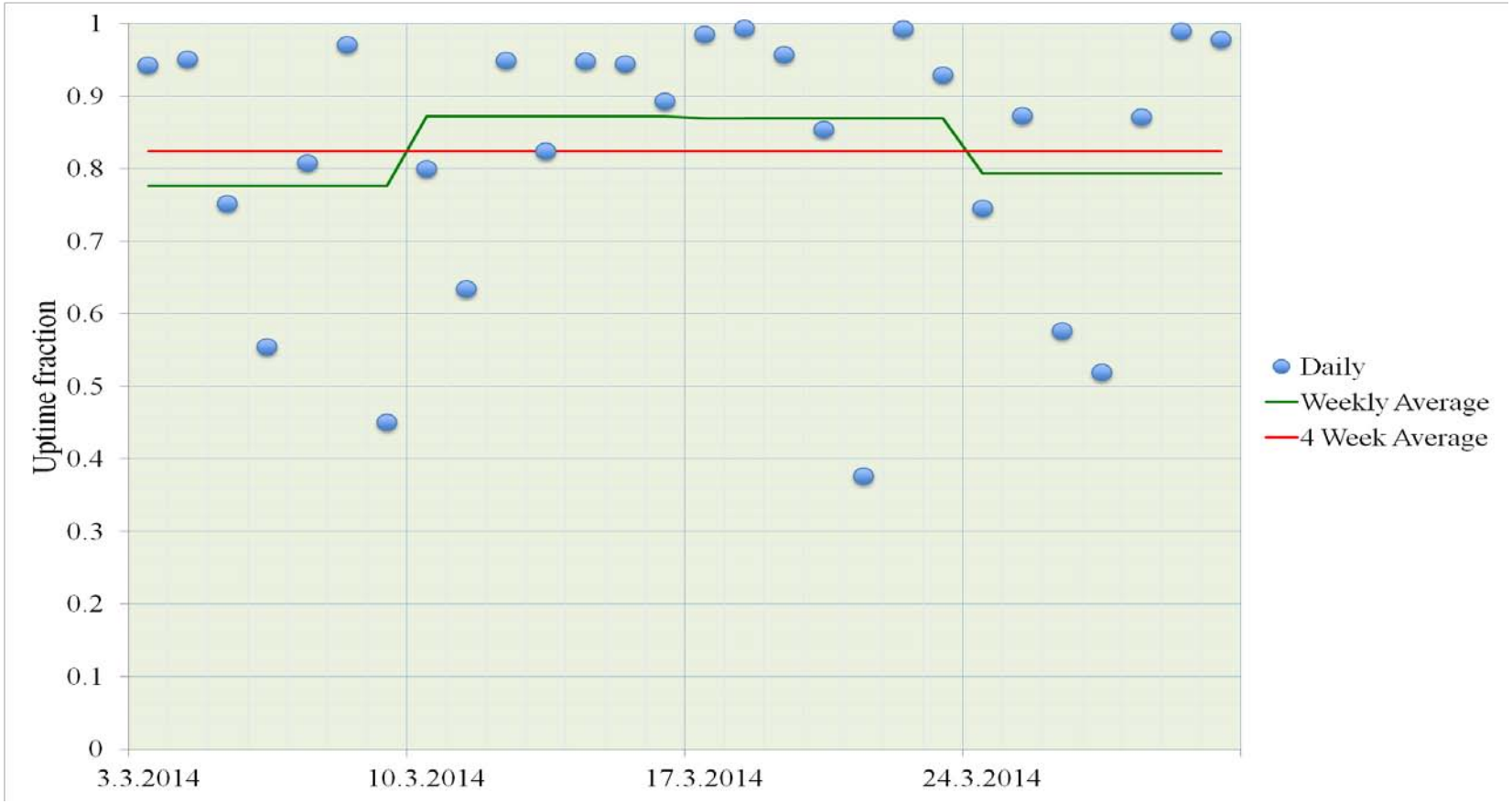


Partition 2 – Diblocks 5,6,7,8, 9(6 dcms)
Diblocks 5, 6, 7 cooled APDs
Installation of new APDs on DB 9

Partition 1 – diblocks 1,2,3,4
Running >99% active, cooled APDs
HV at full gain values

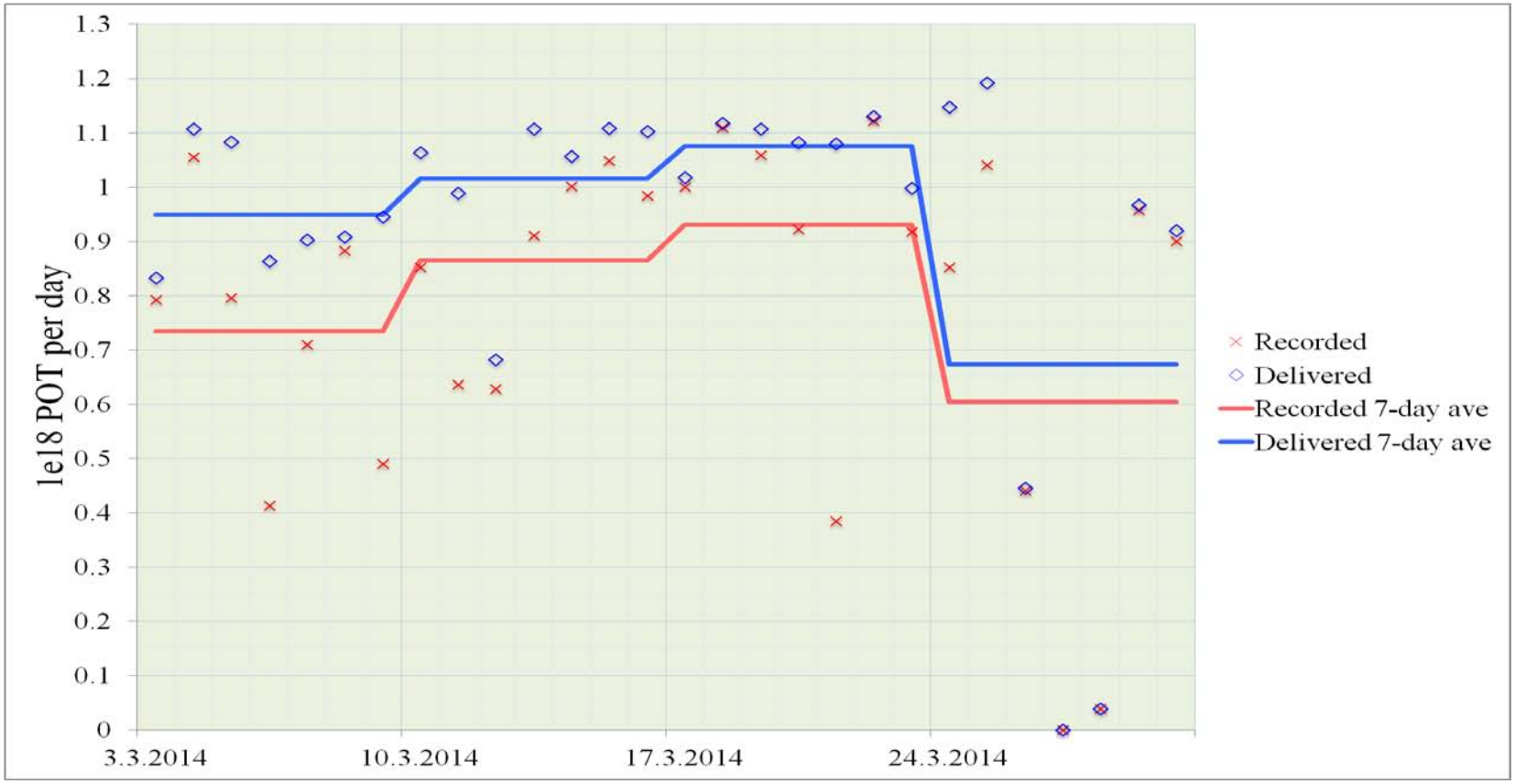
Partition 3 – running diblocks 10-12,13 (Front End Boards only)

FD: DAQ Uptime



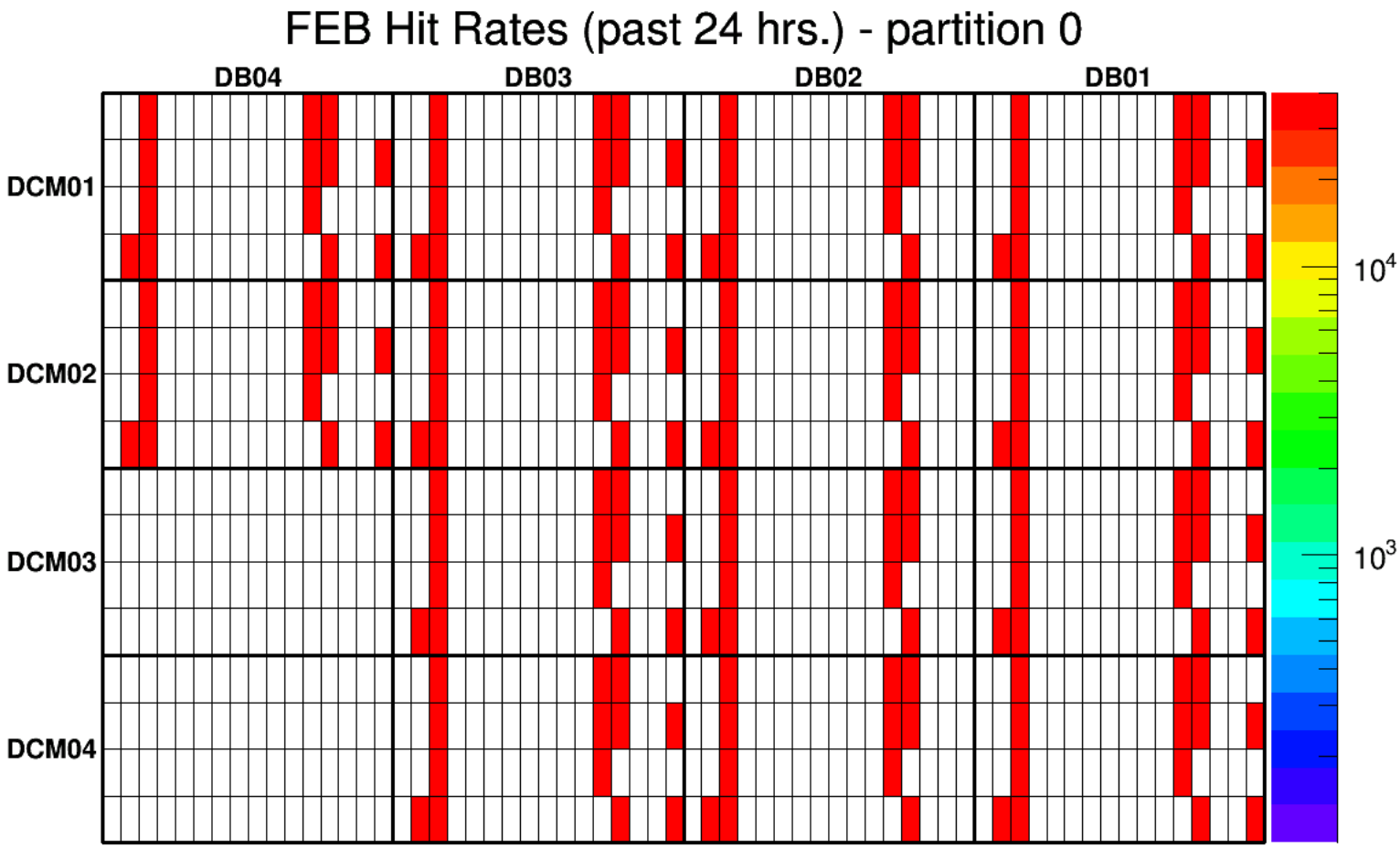
- Plot for past 4 weeks.
- Averaging about 82% and ~ 79% in past week.
- DAQ expert work during the beam shutdown (Wed – Fri) , better weekend

FD: POTs delivered/recorded



- Plot for past 4 weeks, due to 2.5 day beam shutdown both delivered and recorded went significantly down last week.
- We recorded in average only 0.60 e18 pots/day with 89% efficiency.

NearDet: Data-Taking



NearDet – **running in the Pattern mode.**

Summary

FarDet:

- 17 of 28 blocks of FarDet fully-instrumented, running with full gain mode, more than 27 blocks oil filled.
- 3 Partitions are running.
- 4 diblocks are in 'Physics' partition, i.e. 29% of FarDet.
- 2.5 days of beam shutdown, since then smooth running.
- APD/FEB repair and DAQ expert work during shutdown.

NearDet:

- Running in the Pattern mode.
- Continued with oil filling – 56% full.
- Second batch of FEB5 is installed on (50 of 55) μ-catcher modules.