NOvA Experiment Status
All Experimenter's Meeting

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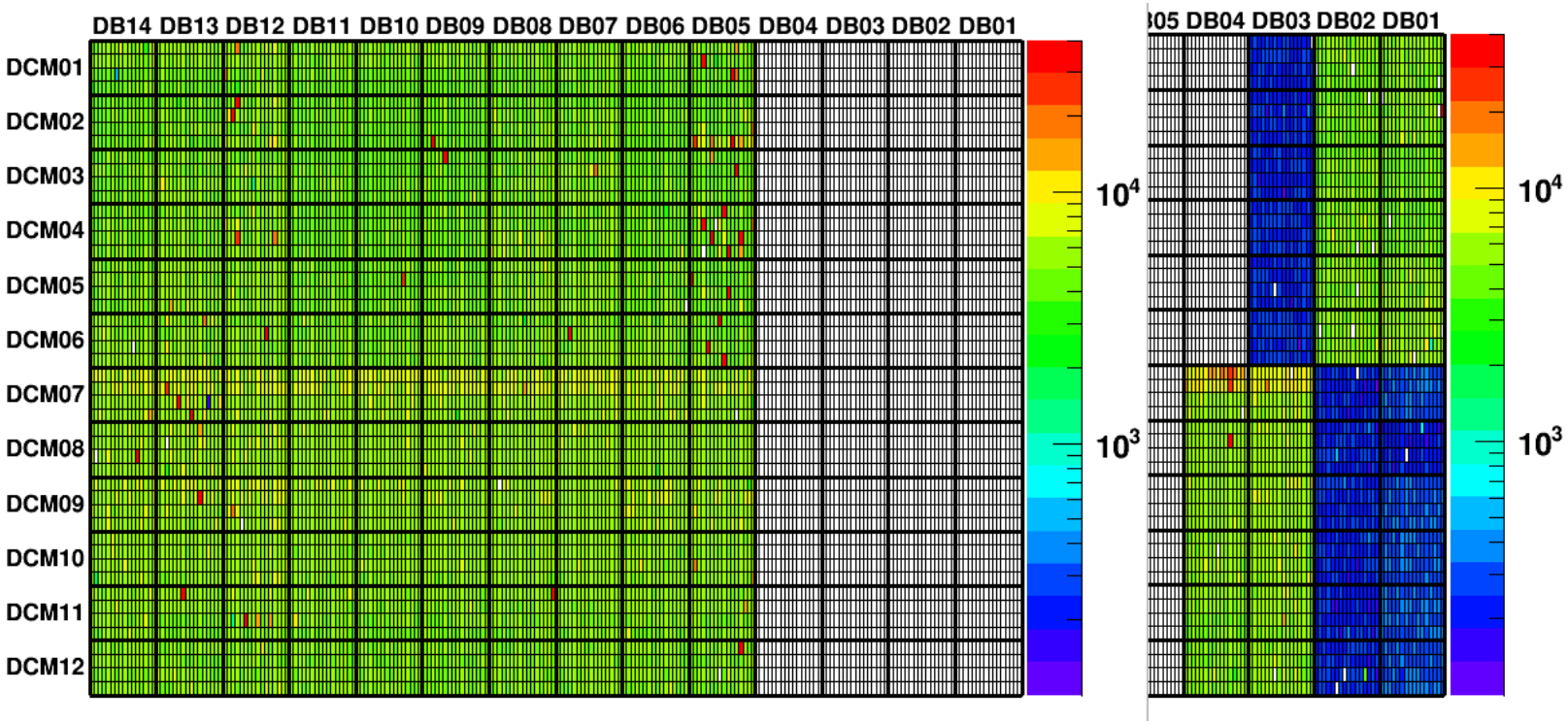
Sep 8, 2014

FarDet: Data-Taking

Partition 1 Sep 8, 2014 Partition 2



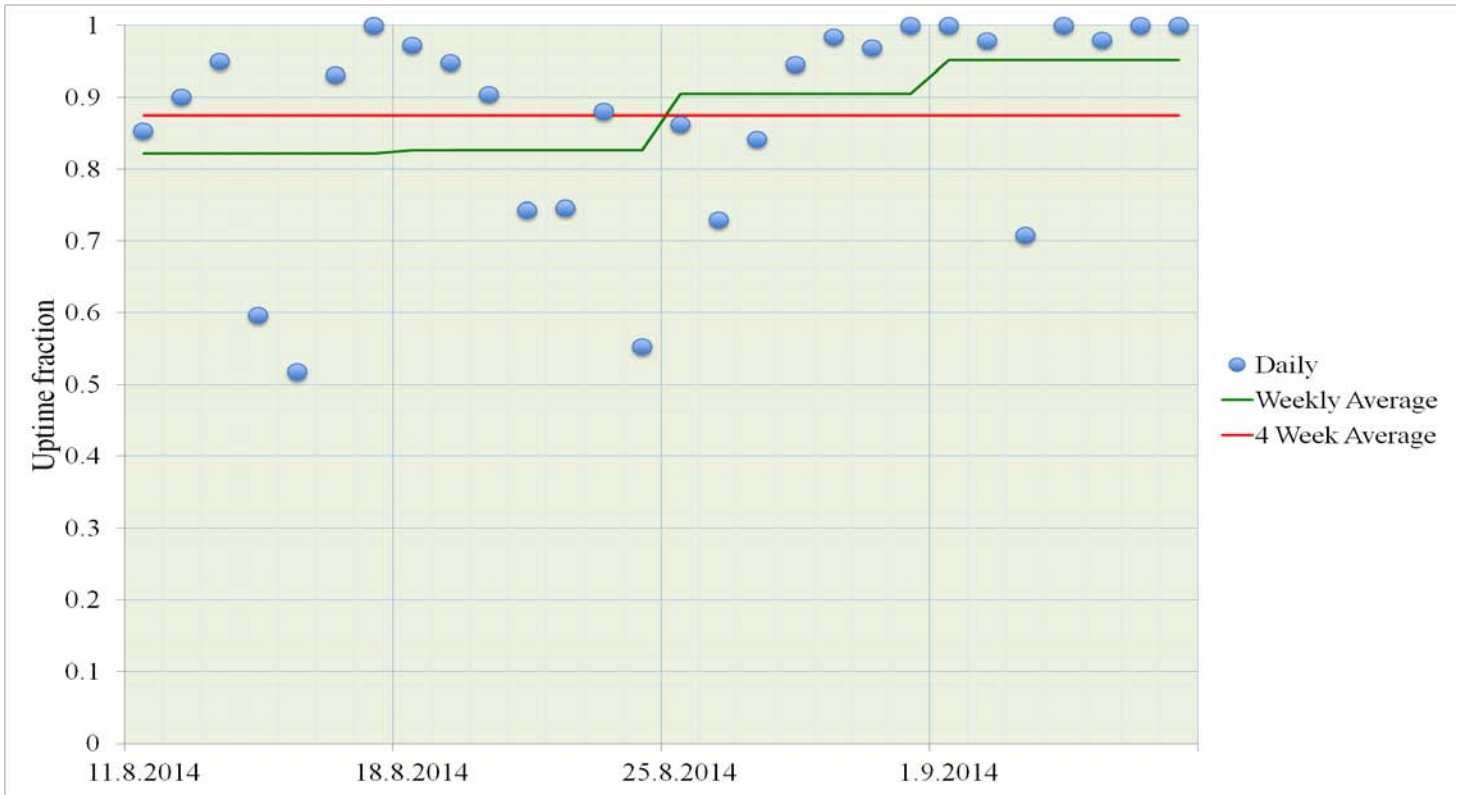
Partition 1 (status last week)

- diblocks 5 – 14
- Running ~99.5% active,
- ALL COOLED, HV at full gain.

Current status - Retrofitting:

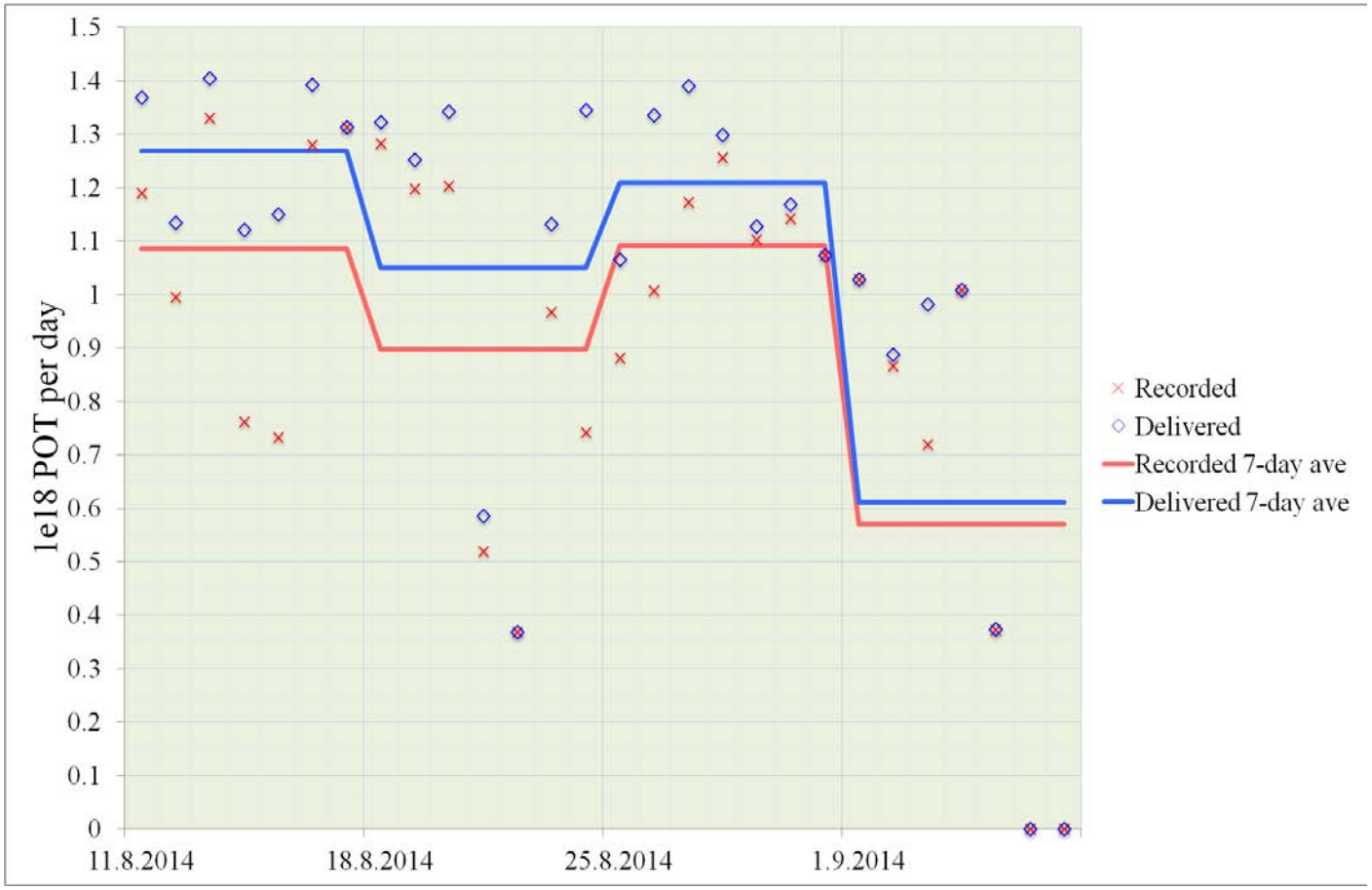
- APD removed from both DiB-{01-02}-side and DiB-03-top, continues on DiB-04-top.
- P2: Diblock 01,02-top, 03,04-side
- P2: included 01,02-side and 03-top APD-less part (for FEB noise)

FD: DAQ Uptime



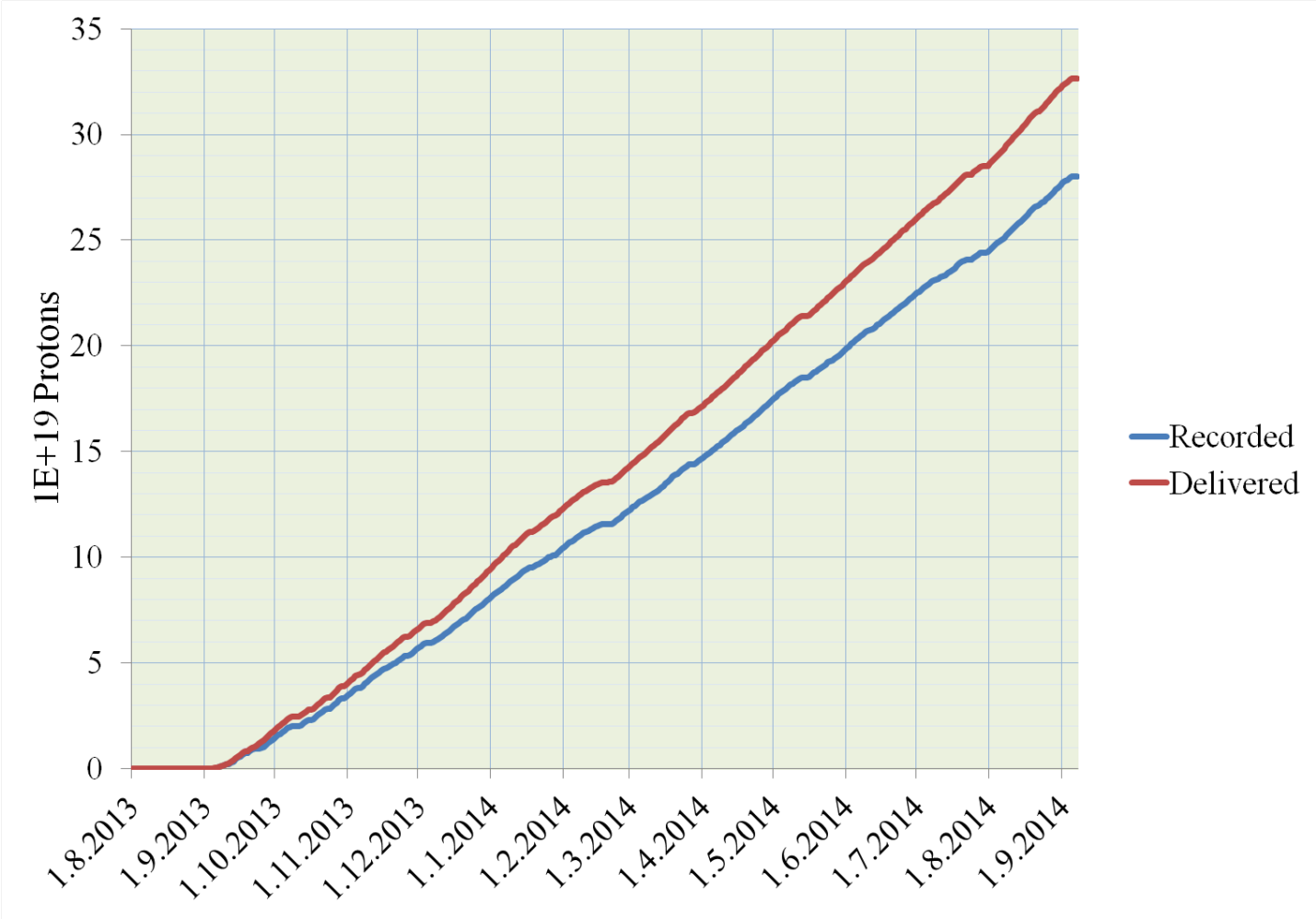
- Last 2 weeks were better, 90% and 95% of uptime (4 weeks average went up 87%).
- Tue before last week two water leaks at DiB-03 top, now removed APDs there.
- Last week was good except the third water leak on Wed.
- We did not make any repairs last week waiting to the long shutdown.
- Long-term average DAQ uptime since last shutdown is 93%.

FD: POTs delivered/recorded



- The beam shutdown started on Fri morning .
- Till than for past 2 weeks we recorded 11.6e+18 (from 12.7) POTs with efficiency 92%
- Good beam data taking was interrupted 3 water leaks. This will hopefully eliminated by ongoing retrofitting which should move out bad parts off detector.

FD: POTs delivered/recorded



- Since last beam shutdown we recorded 2.80e+20 from 3.26e+20 POTs.
- That results in the long term efficiency 85.8%.

NearDet: Detector Operations

- ✓ **Running with full HV setting (at gain of 100) and everything cooled.**
- ✓ **Due to AD power outage (ACNet down) we had to put down detector over last weekend**

Summary

FarDet:

- We started a new phase: the retrofitting.
- Removed 1344 APDs on side of DiB-01,02 and on top of DiB-03,04. Still half of them to be take off. Next week probably start of installing new APDs back.

NearDet:

- Near detector running within final condition for physics till beam shutdown, over weekend switched off due to power outage at AD computer room.

Operation:

- Tried to get as much as possible physics data from both detectors till next big shutdown started.
- Awaiting many outages in next weeks on both sides.