NOvA Experiment Status
All Experimenter's Meeting

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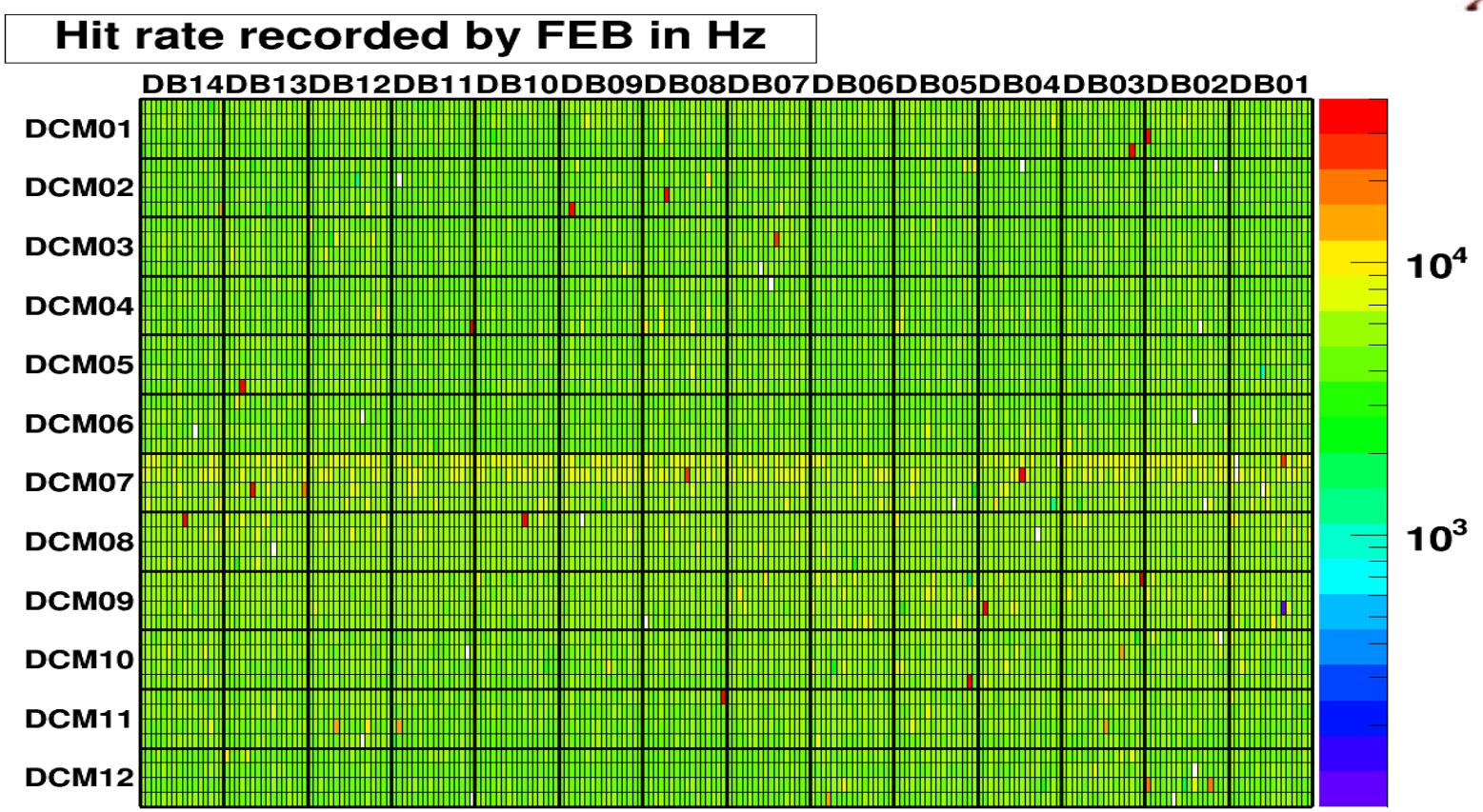
Operations I – summary

- **BEAM:**
  - Beam intensity increased up to 350kW and stable.
- **NearDet:**
  - 2 days of maintenance last week
  - Swapped many parts to lower noise.
- **FarDet:**
  - Retrofitting DONE! Last DCM instrumented Nov 19!
  - Physics with 14-diblocks running since Nov 20.
  - DAQ was stabilezed and number of data taking downtimes significantly lowered, found some culprits and done other improvments.
- **Control Room:**
  - ✓ ok

FarDet: Data-Taking



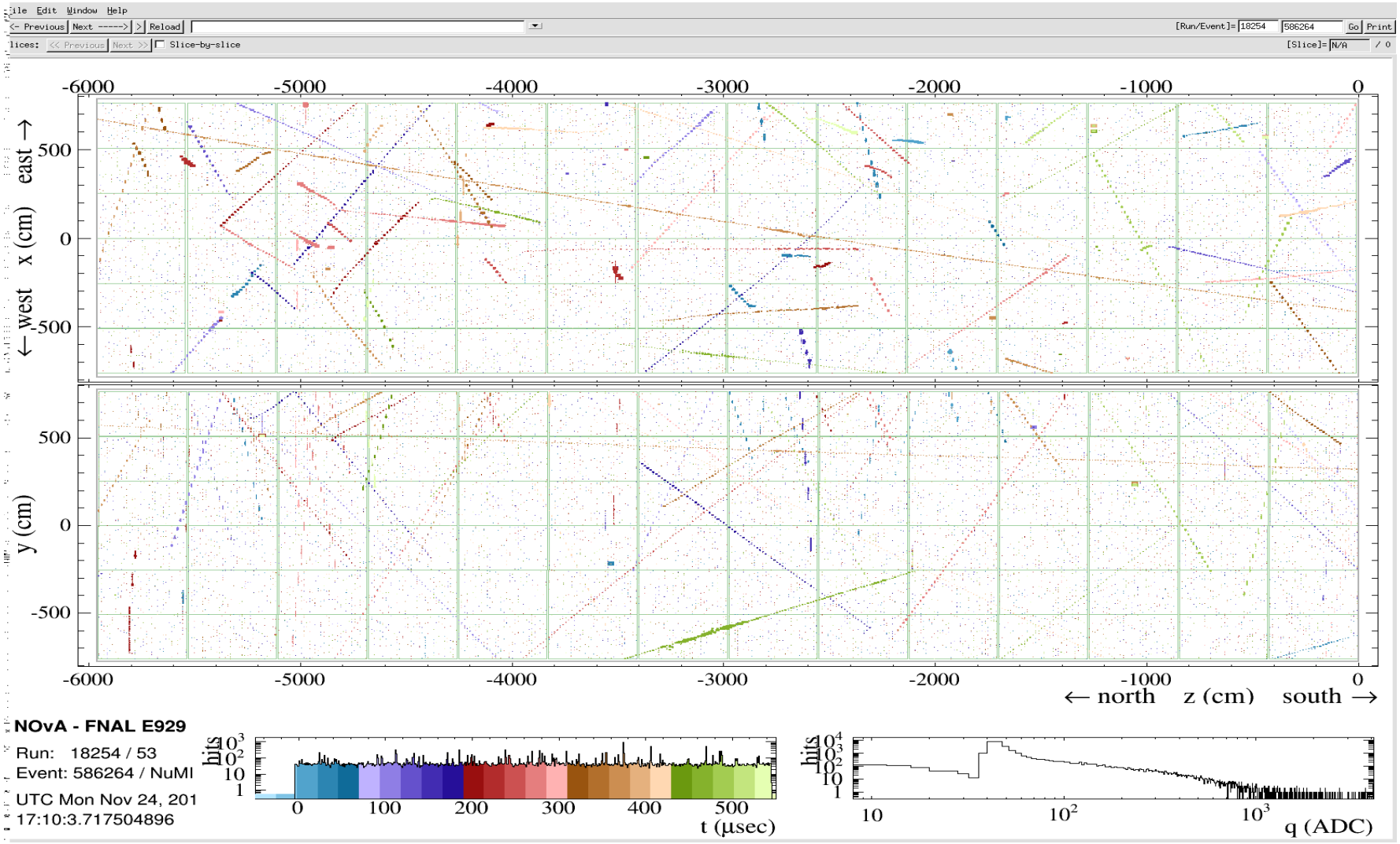
Partition 1 (status since Nov 20)

- diblocks 1 – 14
- Running ~99% active,
- ALL COOLED, HV at full gain.

Current status - Retrofitting:

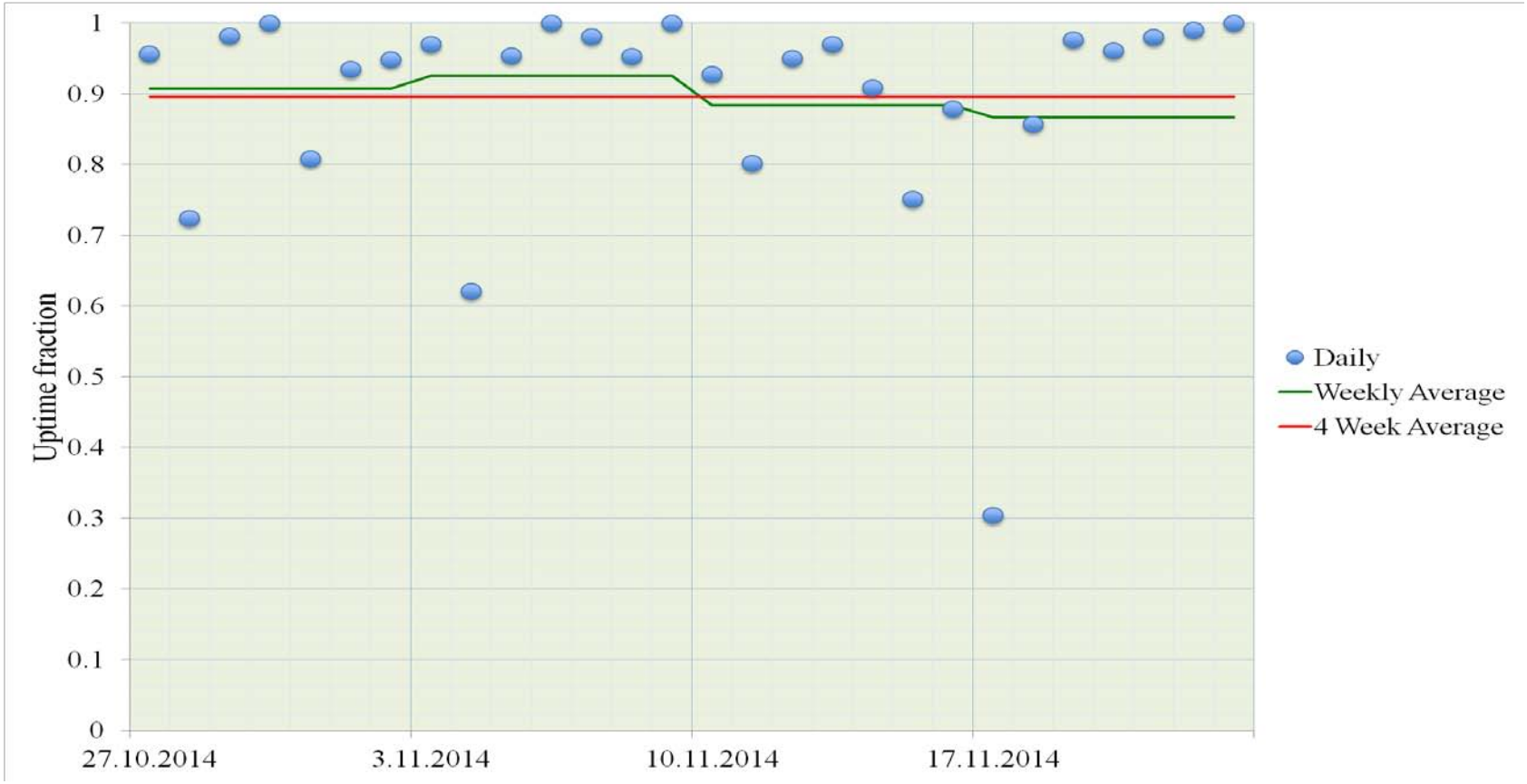
✓ DONE!

FarDet: Data-Taking



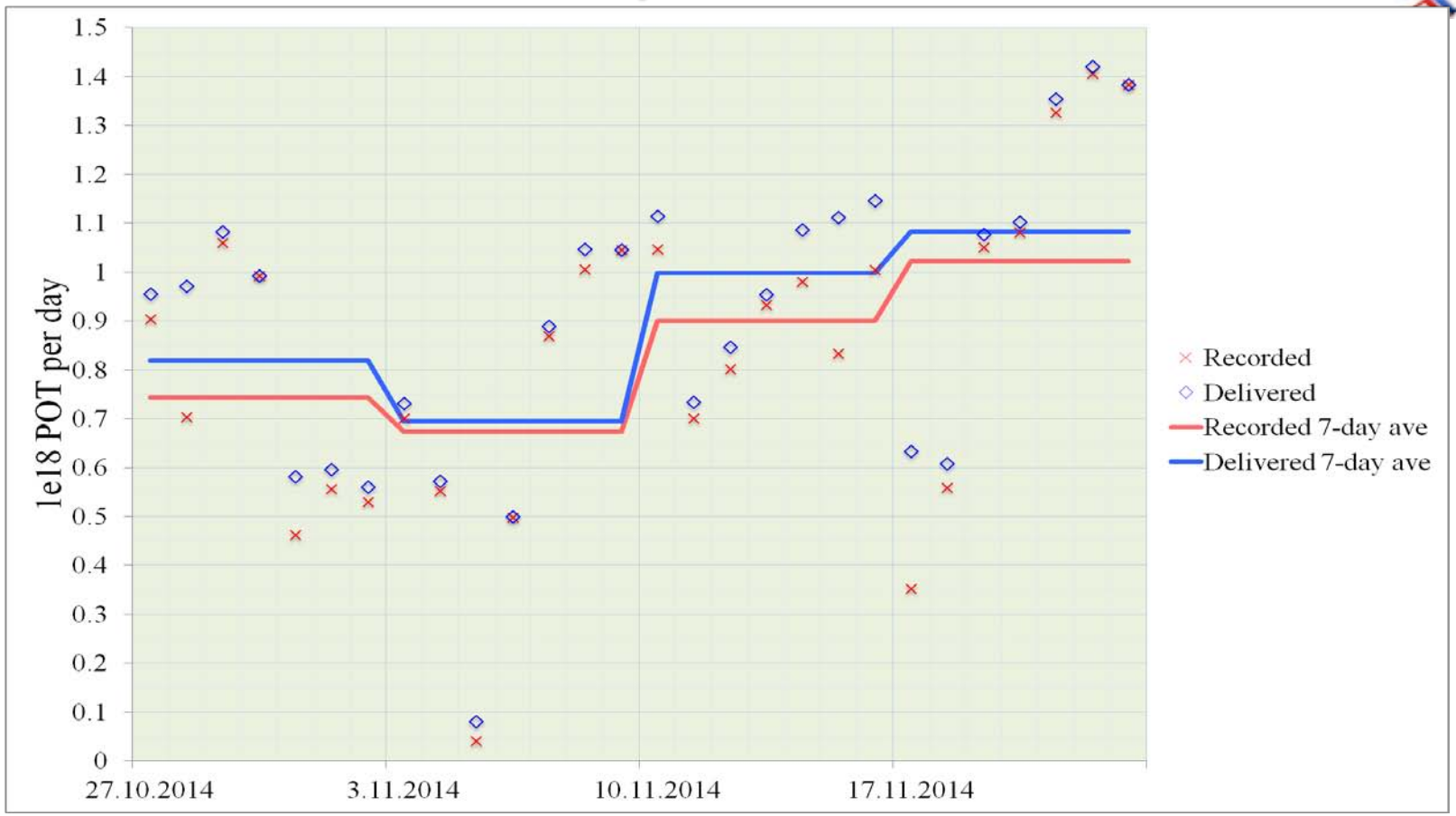
Current status – see tracks going through 60 meter long detector

FD: Data taking Uptime



- Last week running with 87% uptime, since Tue seen significant improvement
- Downtime much affected by the Mon maintenance day (60 % of all downtime, only 0.2% of weekly POTs lost) and DAQ issues (partially Sun).
- Searched for culprit and found a memory leak of Ganglia (monitoring) applications running on the buffer farm nodes, restarted on Mon, NFS network improved on Wed.

FD: POTs delivered/recorded



- Past weak efficiency 94.5% ← good, weekend much better.
- Much higher absolute values due to increased beam power.
- We recorded 7.16e18 (from 7.58) POTs for past weak, increasing numbers!
- 3.5 of 5.5 % of lost POTs are related to DAQ issues had faced a week before (Sun/Mon)
- 0.8% lost due to changes of running configurations.

FarDet: 14k Tons ready

Last retrofitted APDs

DONE! 14 kTon is ready to go