

# NOvA Experiment Status

## All Experimenter's Meeting

Jaroslav Zalesak, Institute of Physics, Prague/FNAL

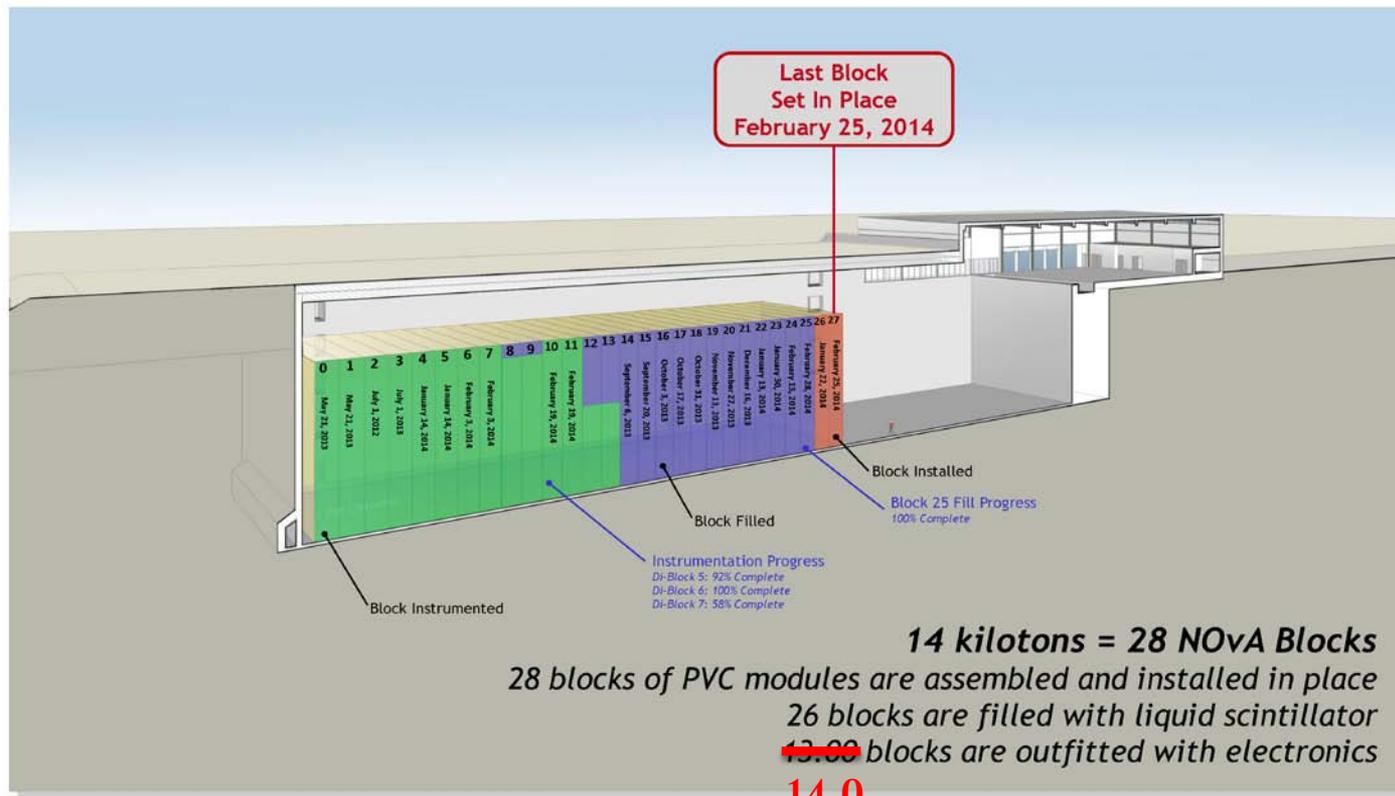
March 10, 2014

# FD: Detector Assembly Progress

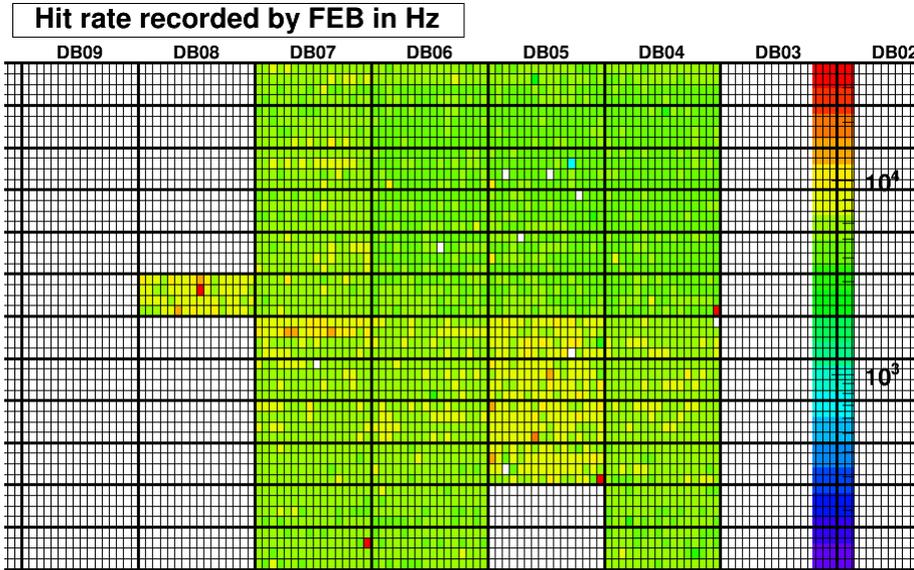


## NOvA Far Detector Assembly Progress

Status Date: 03MAR14



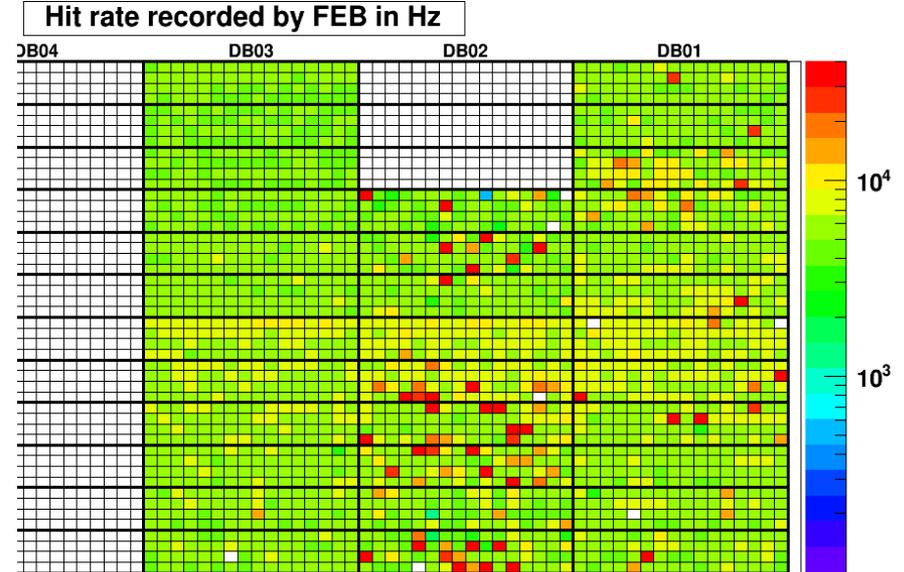
# FarDet: Data-Taking



FEBHitRateMap : source = FD02.shm  
EventID: 13775 / 32 / 145074  
Mon Mar 10 18:31:21 2014 (UTC)

*Partition 2* – Diblocks 4,5,6,7, 8(1 dcm)  
Diblocks 4,5(top), 6, 7 cold APDs  
5 (side) warm  
Due to water leak 2 DCMs on DB05  
switched off now

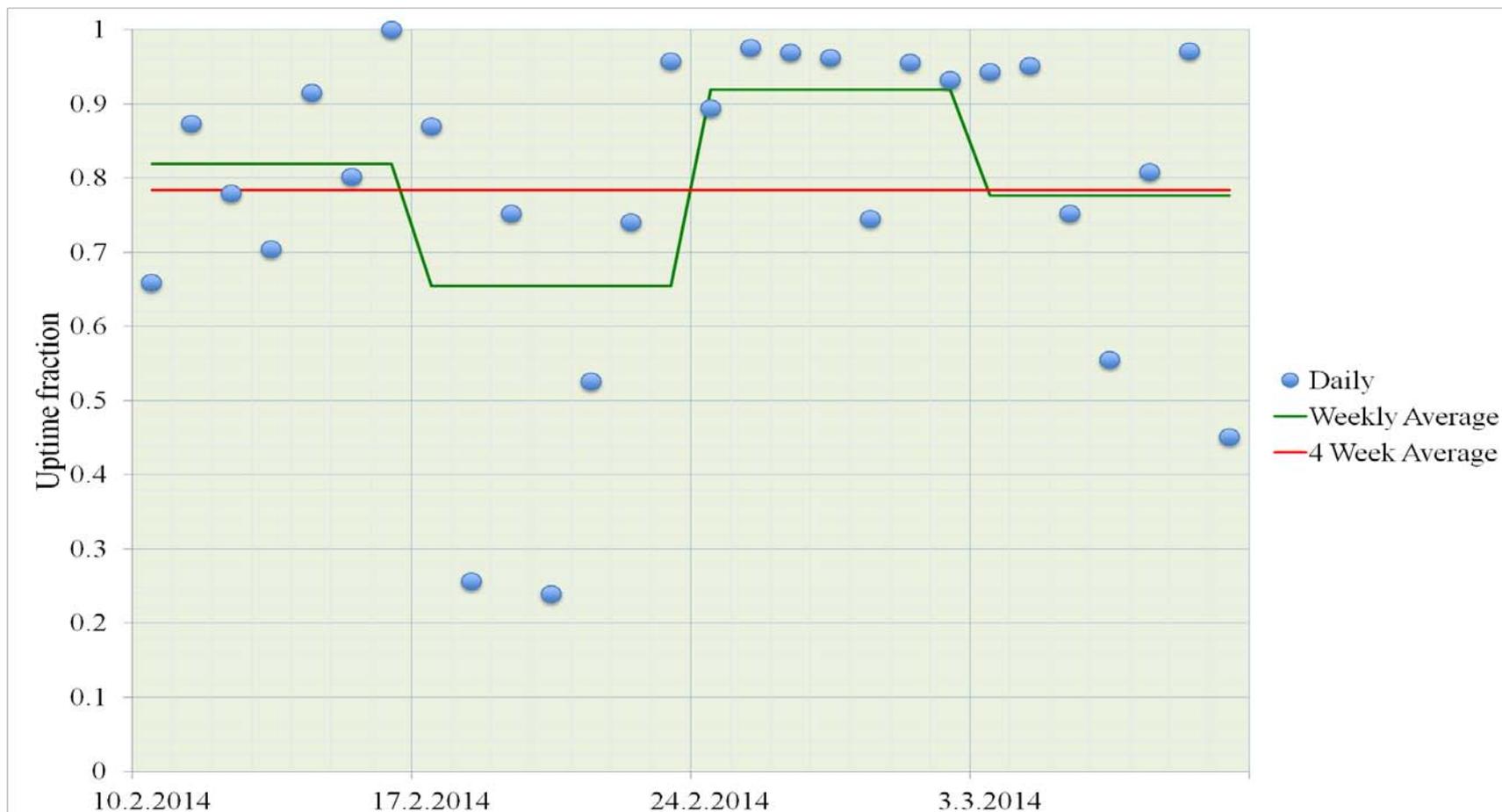
*Partition 3* – running diblocks 8s, 9-12 (Front End Boards only)



FEBHitRateMap : source = FD01.shm  
EventID: 13776 / 22 / 112681  
Mon Mar 10 18:27:06 2014 (UTC)

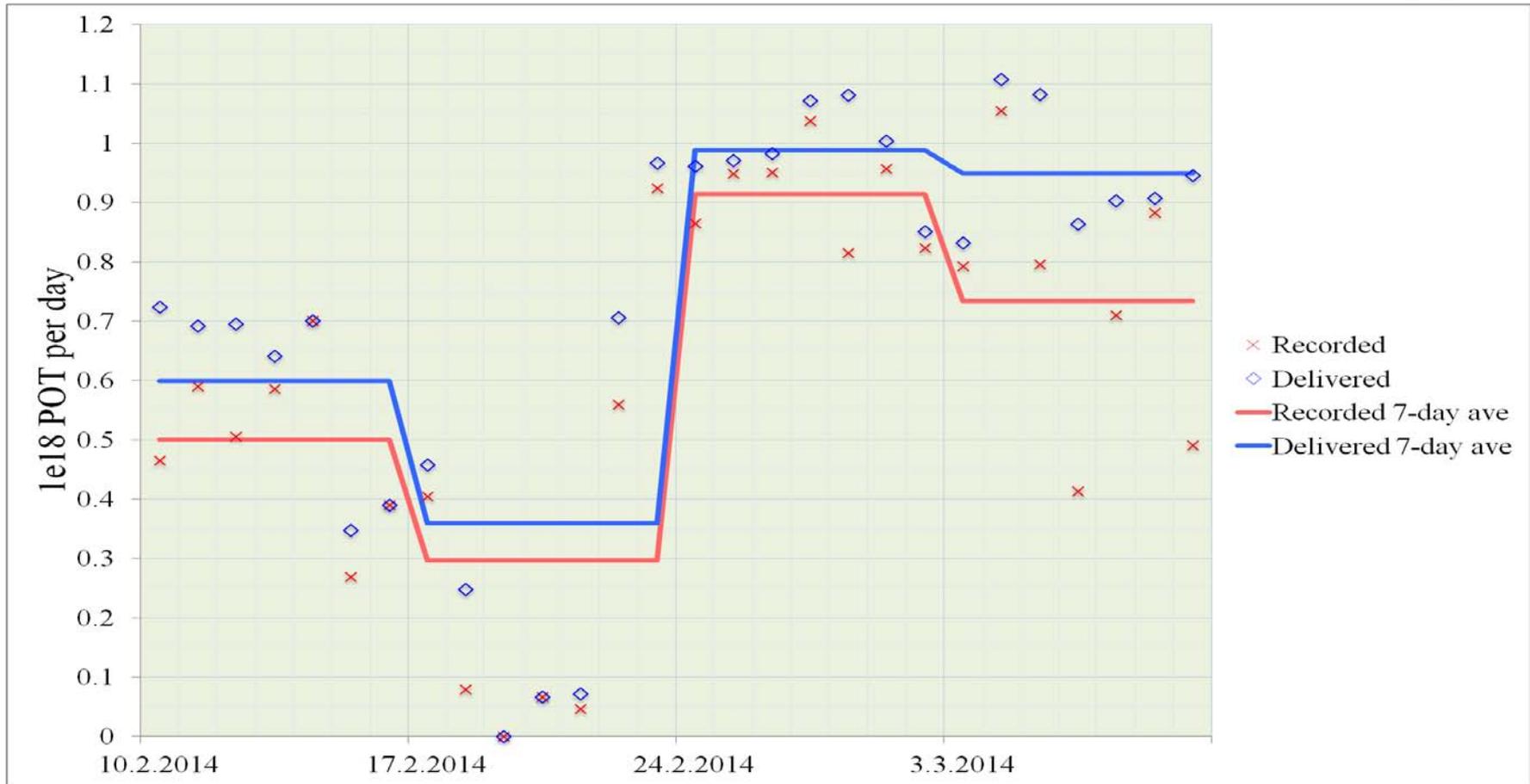
*Partition 1* – diblocks 1,2,3  
Running >99% active, cooled APDs  
HV at full gain values  
We lost 3 DCMs on DB2 on Sun due  
to the PS failure, we plan to swap it.

# FD: DAQ Uptime



- Plot for past 4 weeks
- Averaging little over 78% and ~ 78% in past week, the average dropped last week
- 6 water leaks - minors in day hours: fast recovery, major (Sun) side of detector

# FD: POTs delivered/recorded



- Plot for past 4 weeks, small drop on delivery, bigger on record
- Worse last week, we recorded in average 0.73 e18 pots/day with only 77% efficiency
- Except water leaks, there was the interlock test (Thu) for DB07 to be cooled
- Network interruption on Sun, lost connection to Ash River, other minor DAQ issues

# Summary



- 7 kTons (50%) of FarDet fully-instrumented, running with ~full gain, still not contiguous part.
- 3 Partitions running.
- Hopefully this week will add DB04 to 'Physics' partition.
- Many water leaks this week, one on the side of detector.
- Good news: cooled down DB07 after interlock tests.
- Water leaks, interlock test, network failure and other minor issues led DAQ uptime and POT recording to drop.
- Near Detector: 12 of 14 DCMs were checked out last week and can now communicate with DAQ