

# NOvA Operations Status

Keith Matera, Fermilab  
04/18/2016

# Detector Operations

04/11 — 04/18

**FarDet:** Zero (unscheduled) DAQ downtime

???: Hoorah.

**NearDet:** Single (unscheduled) DAQ downtime

**Apr 11 @ 10:50 (15 min):** ECL 83366: Shiter: “ND RC disconnect at ~10:50 on run 11504 subrun 1. RC came back smoothly following standard procedures for RC disconnect.”

**FarDet:** Disk drive failure (data-taking not affected)

**April 11, 2016 @15:44: Bill M.**

“We just got a call from the control room to contact Etta [Burns] about another bad 4TB hard drive. This one was in slot 13 Datadisk 4. Tom has already replaced it.”

Some of our disk drives are getting old. We have plans for the summer shutdown to update our critical nodes (*e.g.*, near/far-master, near/far-dcs-master) with newer drives.”

# Training and Network Configuration

04/11 — 04/18

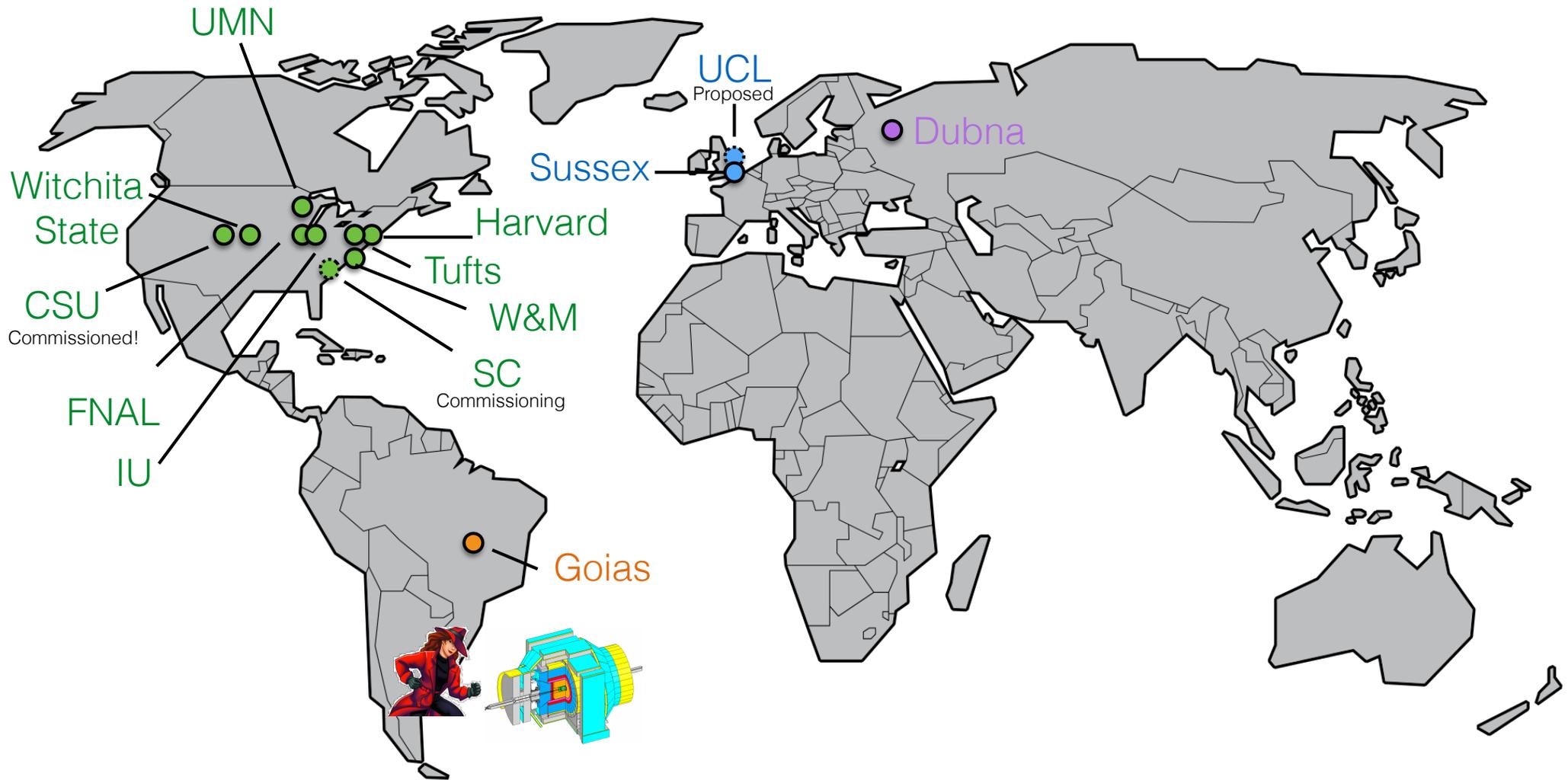
## **NearDet:** DAQ Training

**April 13, 2016 @ 11:00-13:25** : ECL 83476-83477: Training on the timing system.

## **NearDet:** Network configuration

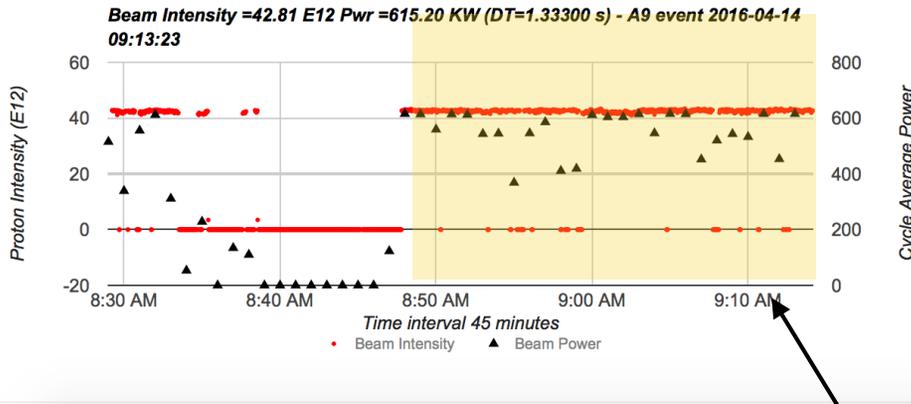
**April 15, 2016 @ 09:25** : Andrey Bobyshev (on restoring multi-casting): “I think, next opportunity for a downtime will in a few months”. Plan is to restore multicasting during next scheduled beam downtime (currently Wed, June 1)

# NOvA's ROC Network: ever greater

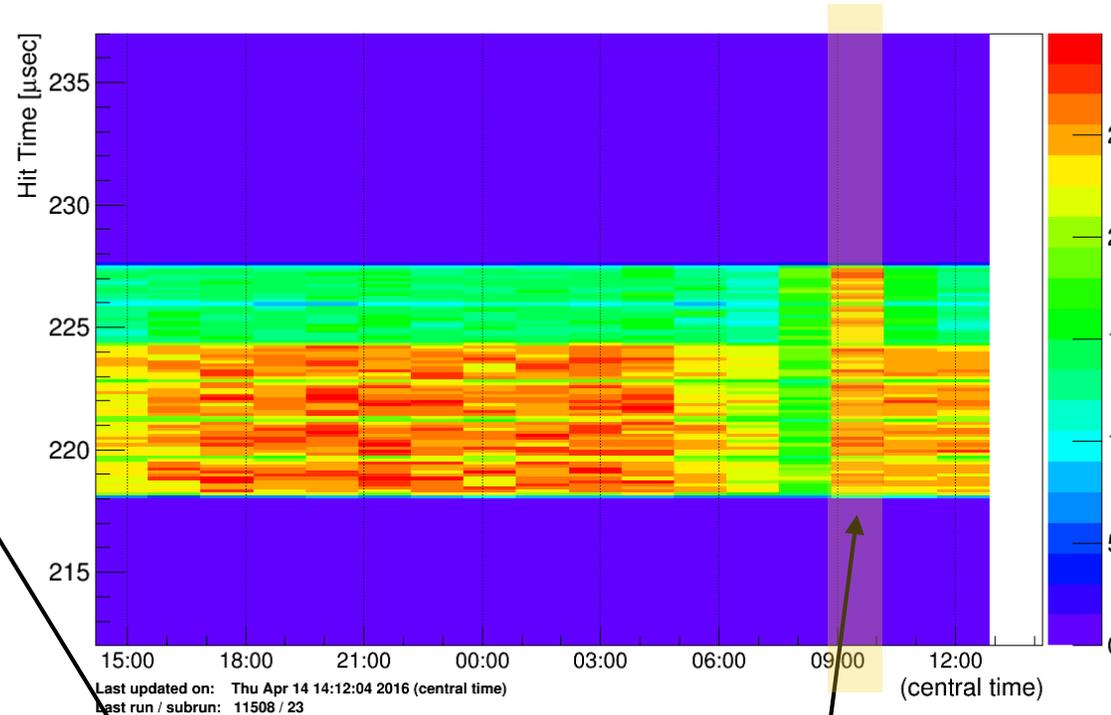


SC working toward shadow shifts; CSU commissioned!

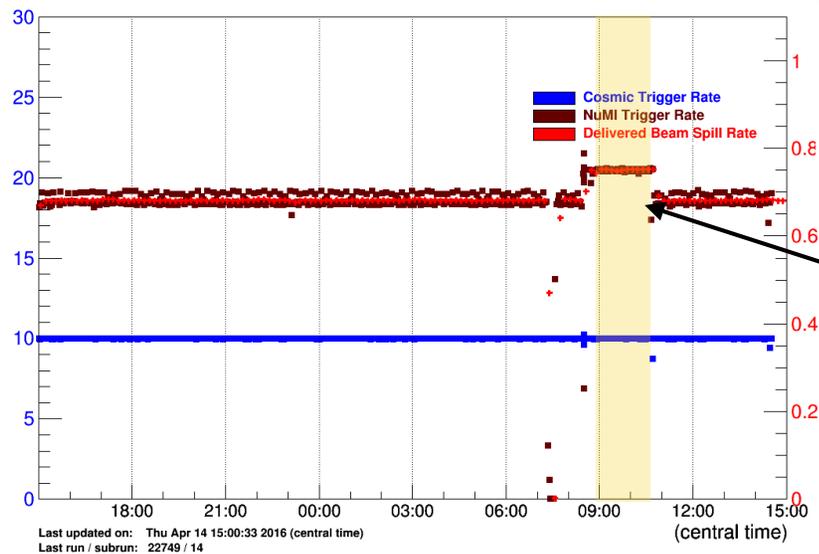
# Thursday morning (04-14-2016): > 600 kW beam power!



NuMI Time Distribution for All Hits vs. Time - partition 1



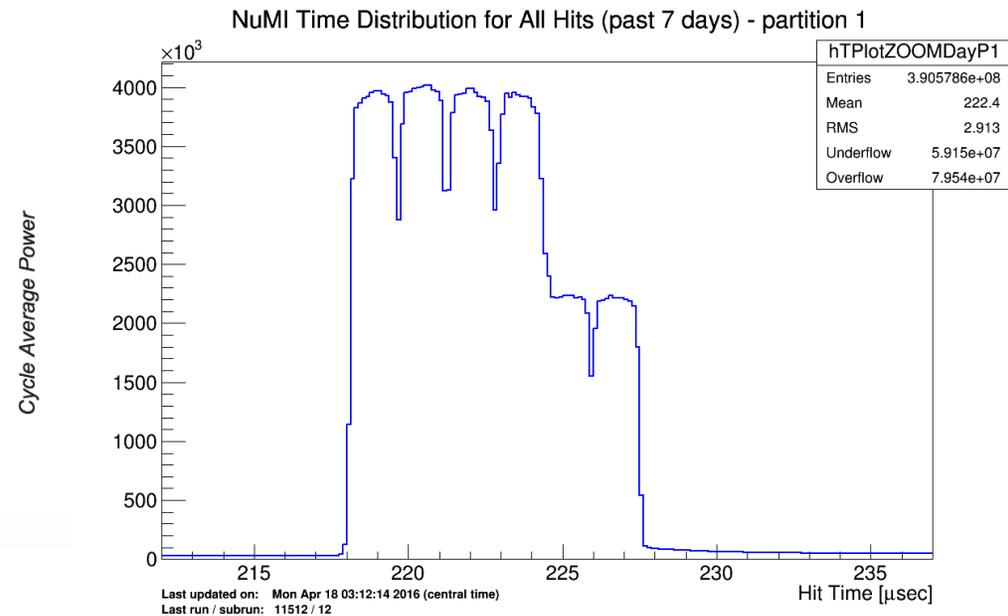
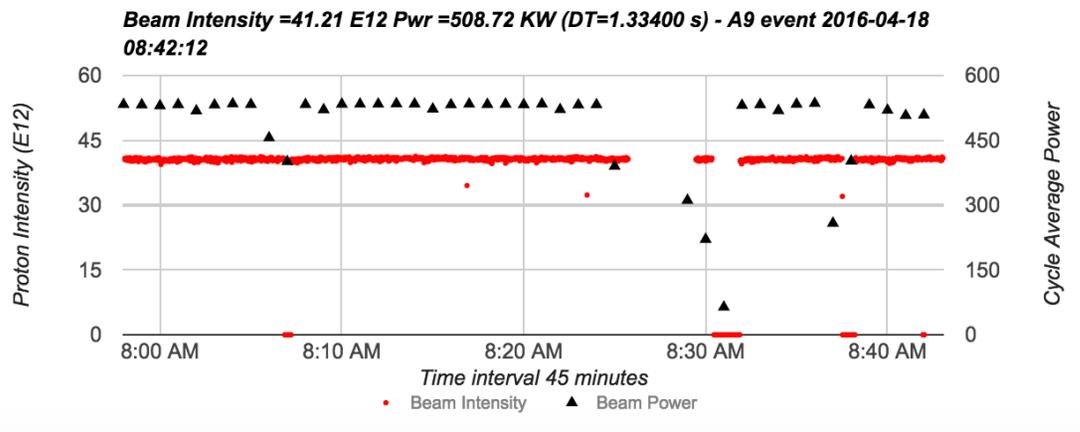
Average Trigger and Spill Rates (Hz) - partition 1



At 6+6 slip-stacking

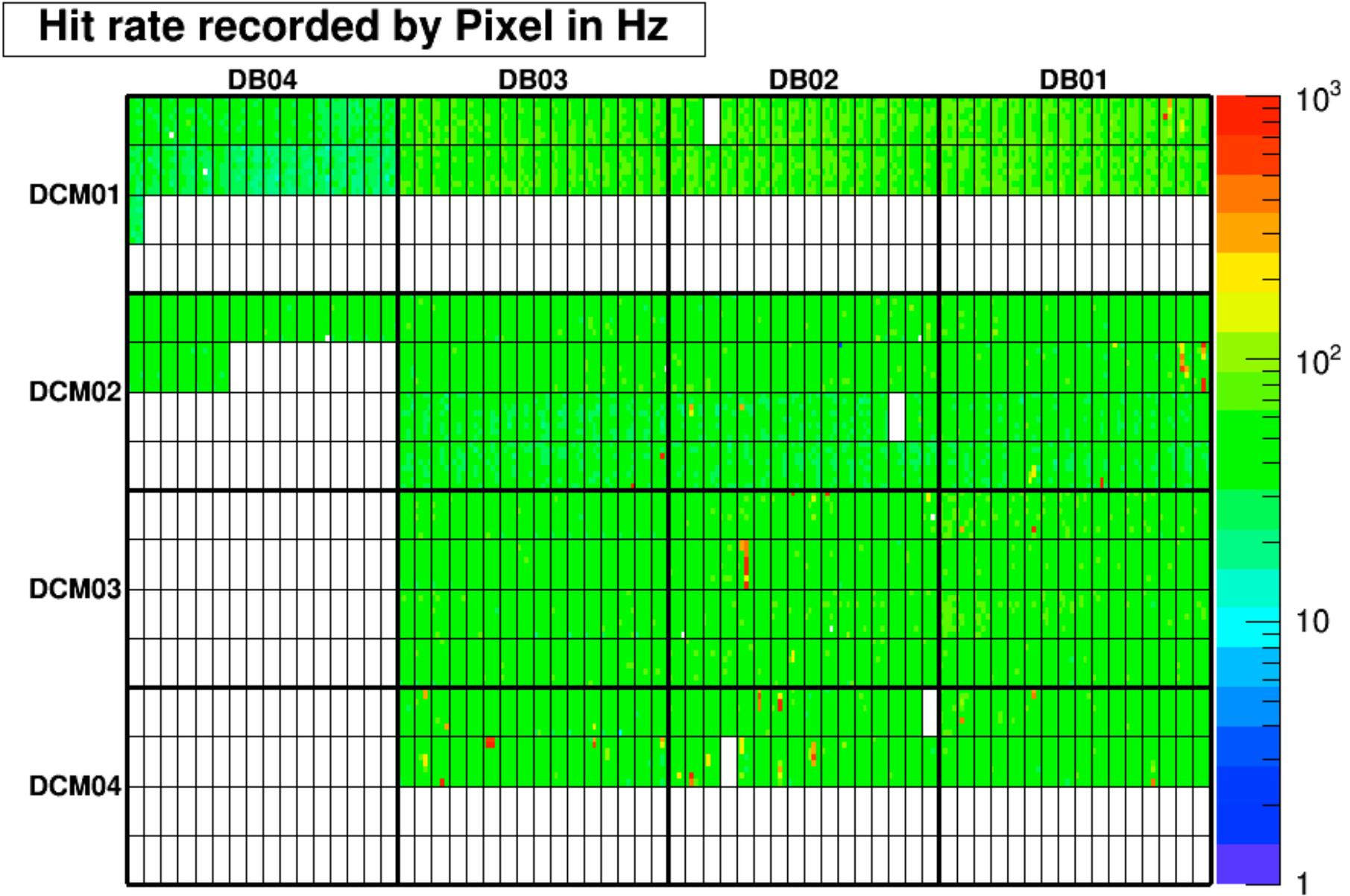
Phil S: "There were a couple of hours of 6+6 slip stacked beam yesterday during which a 1 hour average power record of ~610kW was set. (There was no switch yard beam.)"

# NOvA is currently seeing: 4+6 slip stacking, ~510 kW



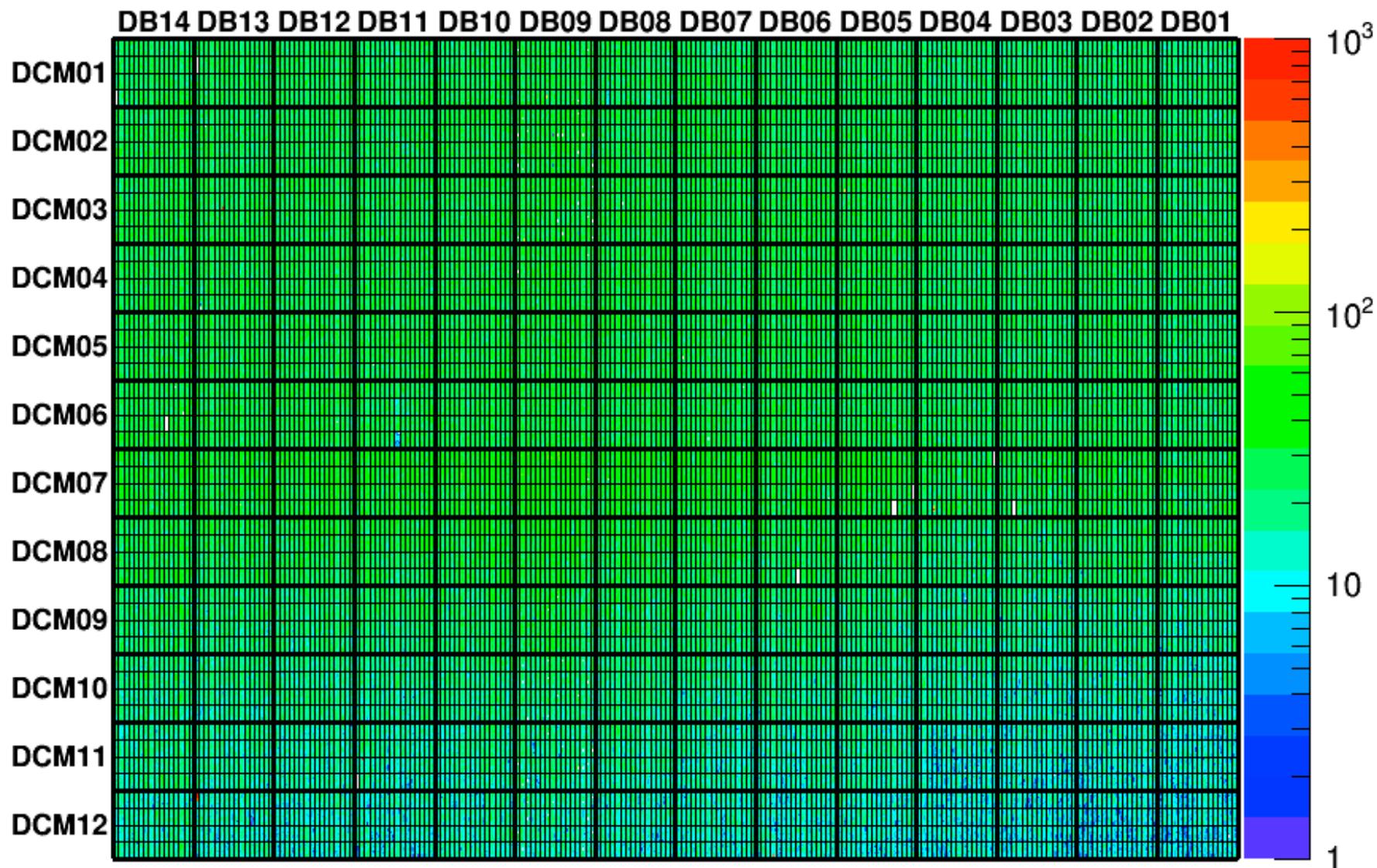
Plots taken from this morning; many thanks to AD!

# NearDet FEB MIP Hit Rates (by pixel)



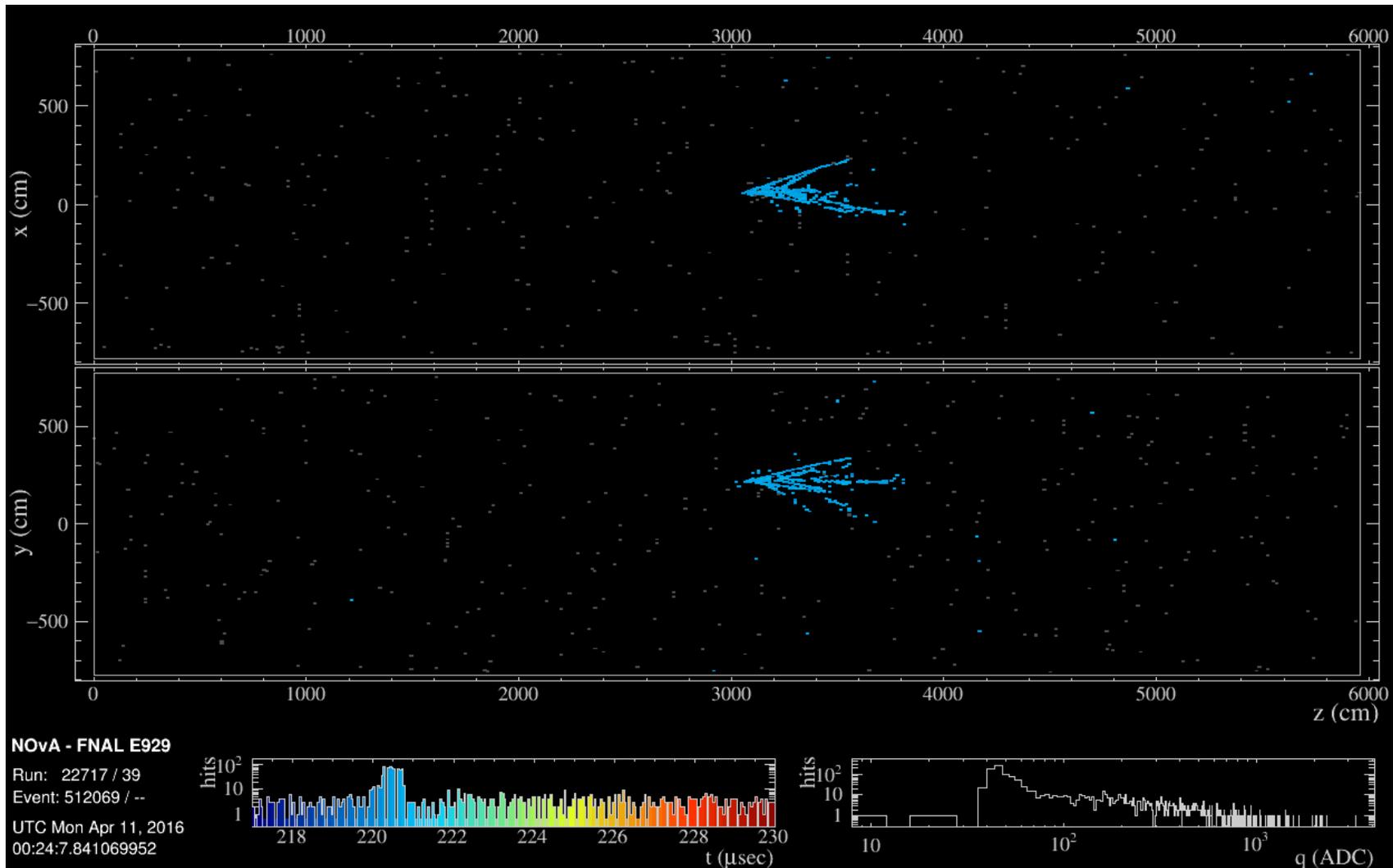
# FarDet: FEB MIP Hit Rates (by pixel)

Hit rate recorded by Pixel in Hz



# Latest processed FD neutrino candidate

## Event display from April 11

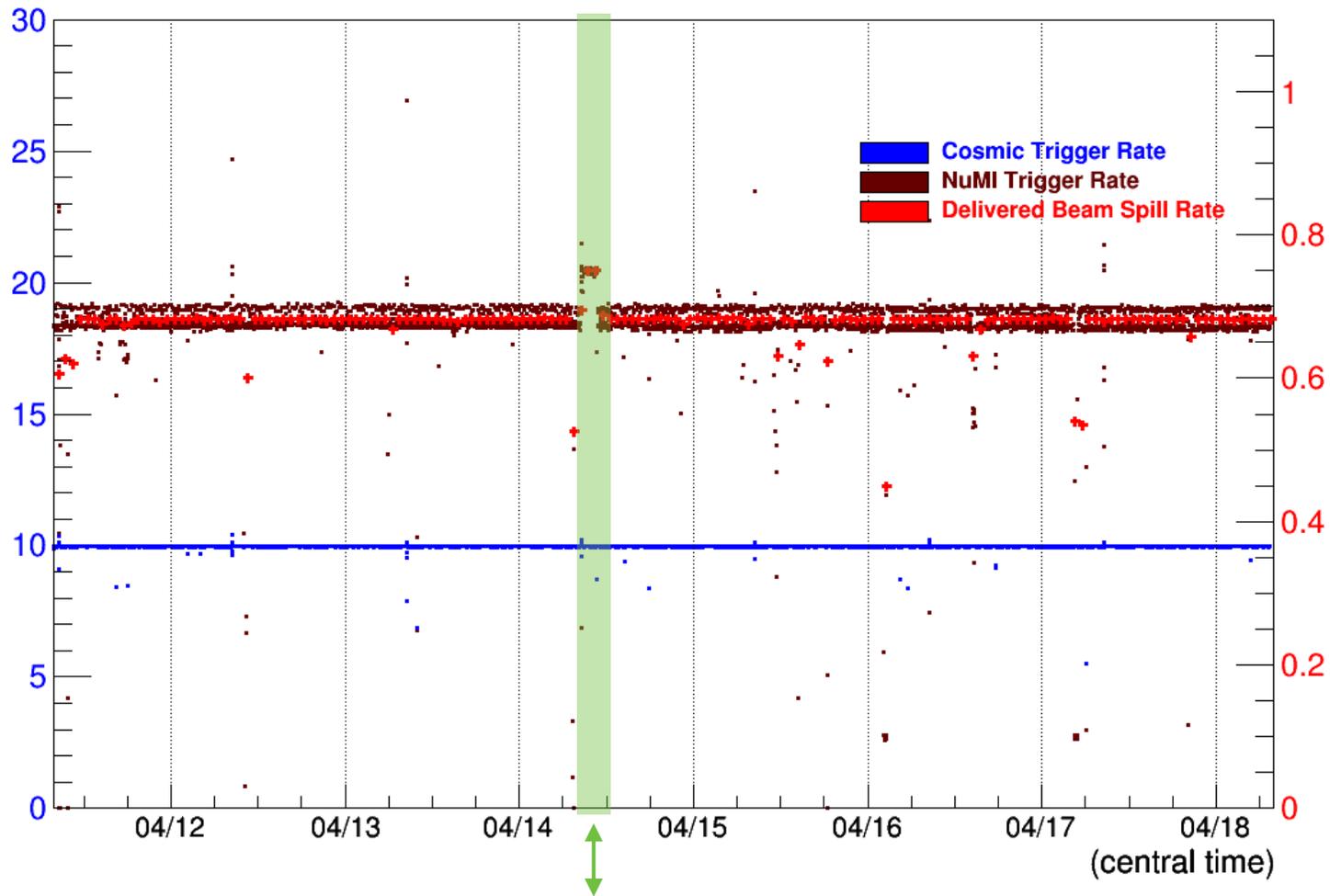


Blinded selection (does not use our PIDs or detailed selection criteria).  
Just grabs contained vertices with forward-going prongs.  
Selection also looks at higher energy events than our normal selectors.

# Great week for recording POTs

Plot shown is for FD

Average Trigger and Spill Rates (Hz) - partition 1



Sustained 6+6 slip stacking at 600 kW

# FD: Accumulated POTs

