

NOvA Experiment Status

All Experimenter's Meeting

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May 18, 2015

Operations – Summary



❑ BEAM:

- Slip stacking 2+6 continues with higher intensity (>400 kW).

❑ NearDet:

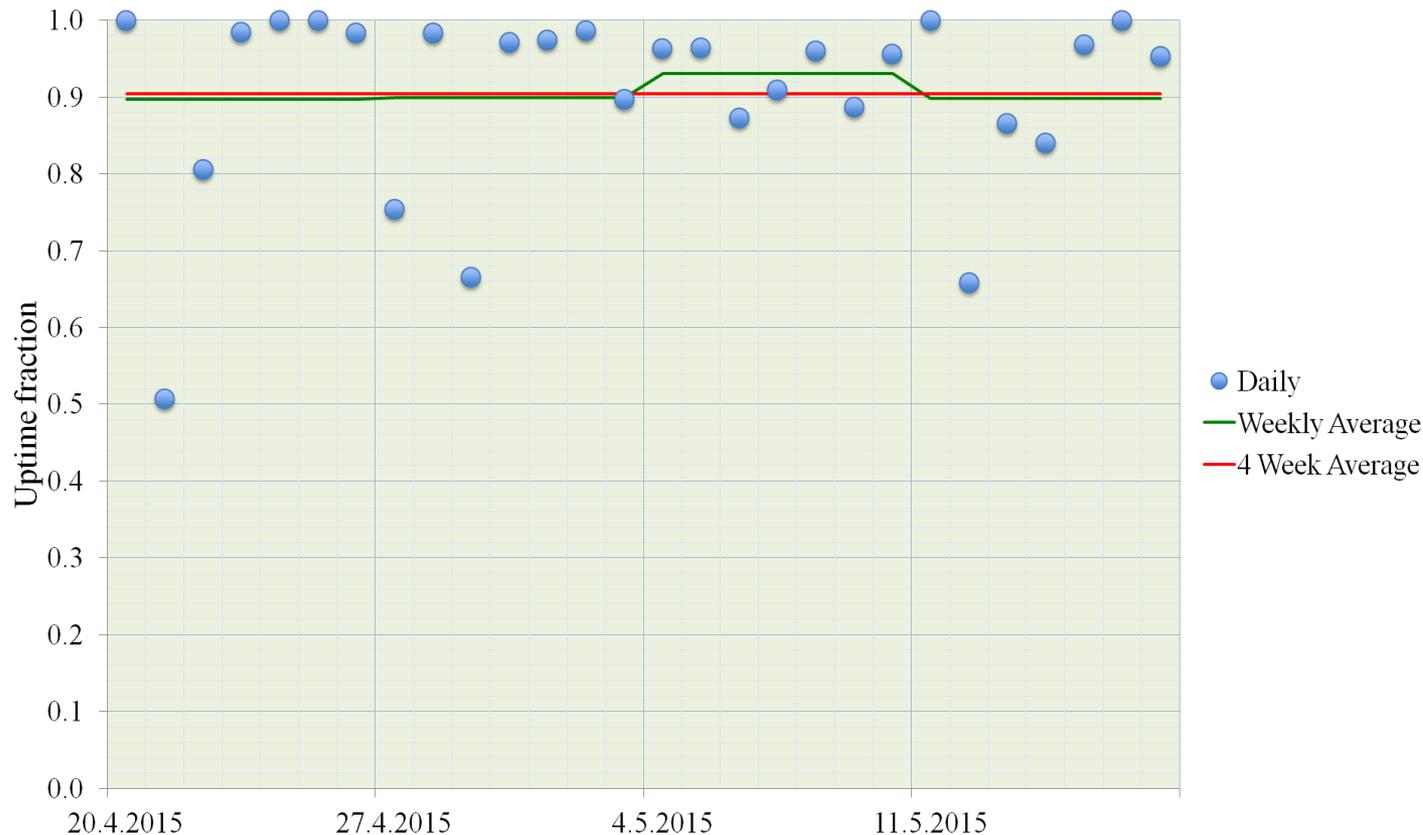
- Running well. Made tests with powering down HV and study of effects on noisiness of some channels.

❑ FarDet:

- Unplanned beam shutdown used to study DAQ behavior in dependence how many buffer nodes and/or dcms are used in.
- Frequency of the short DAQ downtimes less, the mysterious one dismissed at all.
- *After the week deadline we faced the thunderstorm knocked out FarDet and the recovery took more 12h with many issues.*

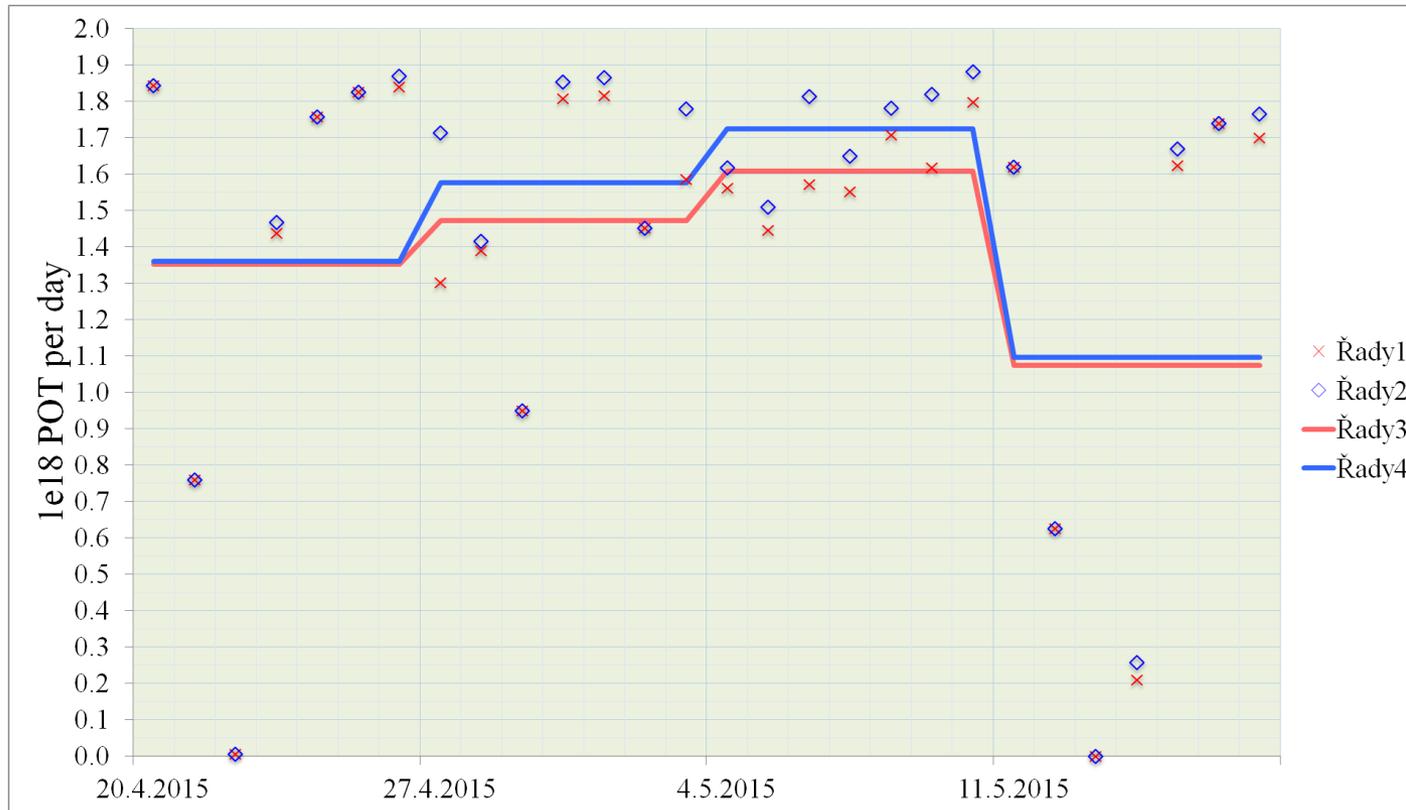
❑ Control Room(s): We used only 1 shifter on duty even if in one of the remote control rooms.

FD: Data taking Uptime



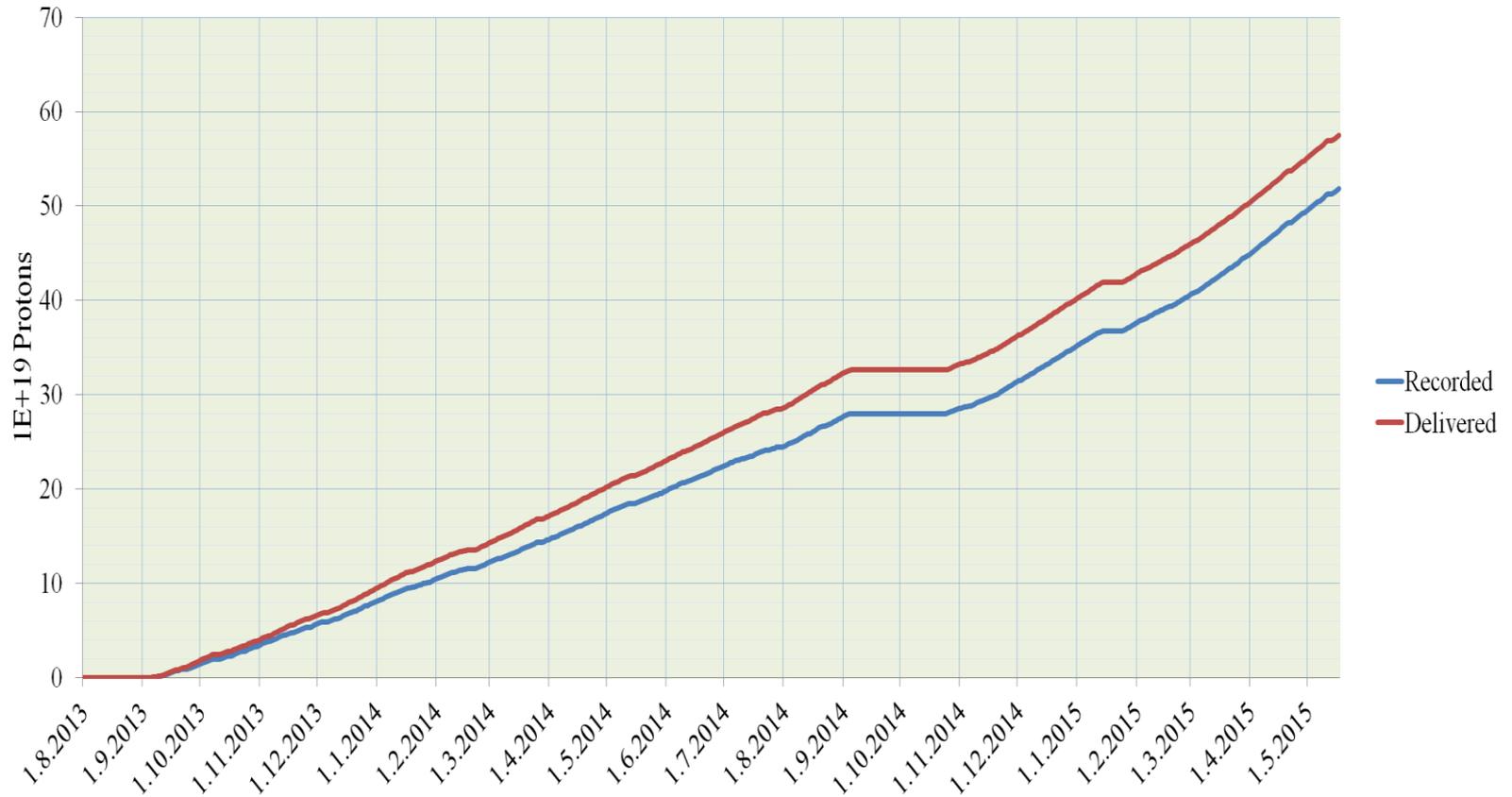
- Last week running uptime efficiency was *only* 90.0%, in total of 17 hours down.
- Most of them (13h) when beam down and other 2 hours during low beam intensity.
- Beam lost only during 2 hours (excluding the power glitch last night).
- Number of short DAQ crashes significantly went down comparing a week ago.

FD: POTs delivered/recorded



- Past week efficiency was good comparing last weeks at 97.9%, (7.51 of 7.68 e18 POTs).
- The absolute values were low due to 2+ day beam absence.
- The power glitch beam lost are not seen in this picture.

FD: Accumulated POTs



➤ 2013/14: 280/326 e18 POTs (86%) + 2014/15: 238.3/248.7 e18 POTs (95.8%) [205 days]

Power glitch at Ash River site



□ FarDet:

- *After the week deadline we faced the thunderstorm caused short (in seconds) power outage affected both detector PS and computers.*
- *Resulted to significant data taking down time, estimated for 15.5 hours, starting Sunday (5/17) evening at about 18:37.*
- *Power outage recovery usually takes 2-4 hours, depending on the issues encountered with the large DAQ and Detector Controls computing cluster, the custom timing and readout hardware, and the cooling of APDs.*
- *In this case, the recovery has been prolonged due to the interaction of various technical and procedural issues, predominantly with our timing system.*
- *The timing system is fully recovered, and we are taking data since 10:30 (after 1 hour running a break needed for the DSO/pedestal scan).*