

NOvA Experiment Status

All Experimenter's Meeting

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Operations – Summary



□ BEAM:

- Slip stacking 2+6 continued till Sat (~200 kW).
- 4+6 delivered to us.
- The decision: NearDet kept running, FarDet not so important.

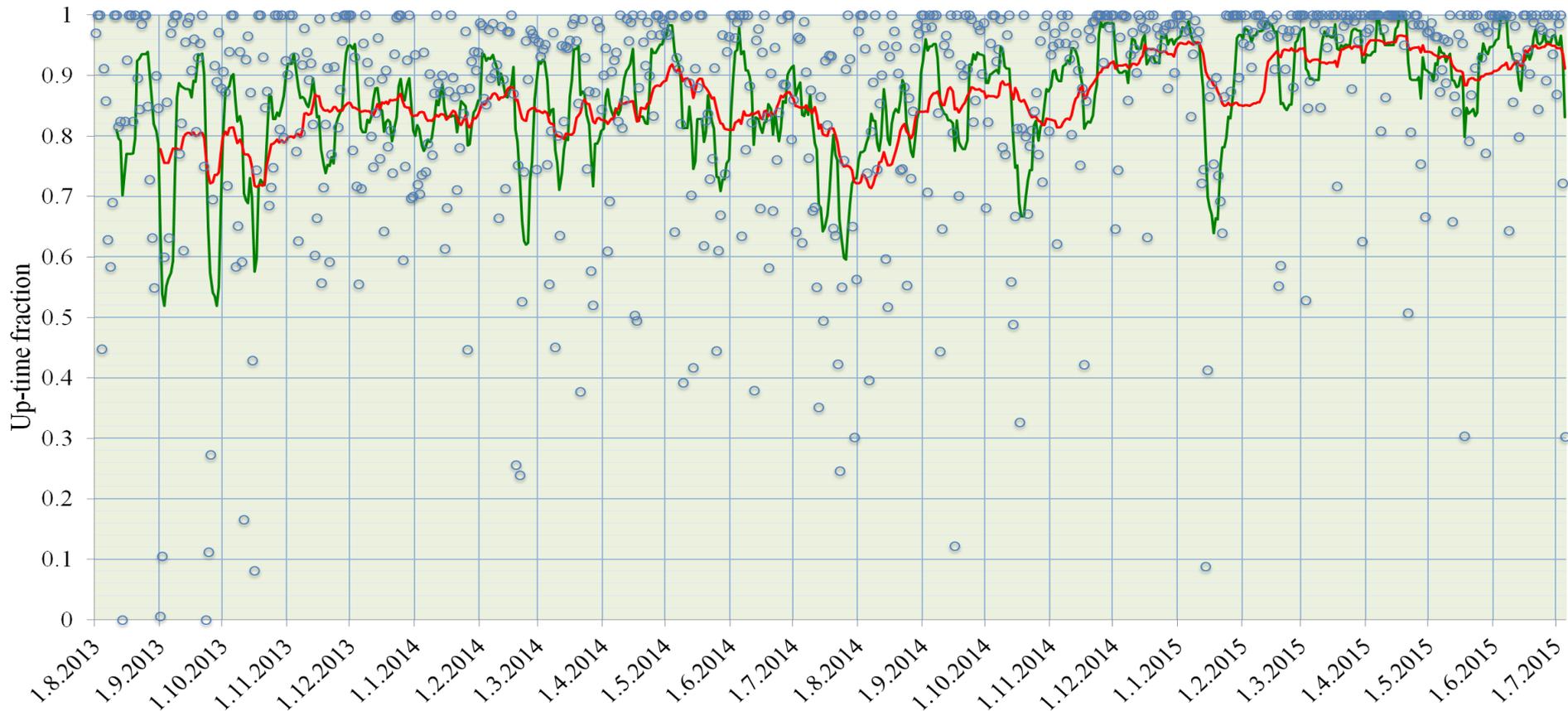
□ NearDet:

- No issues.

□ FarDet:

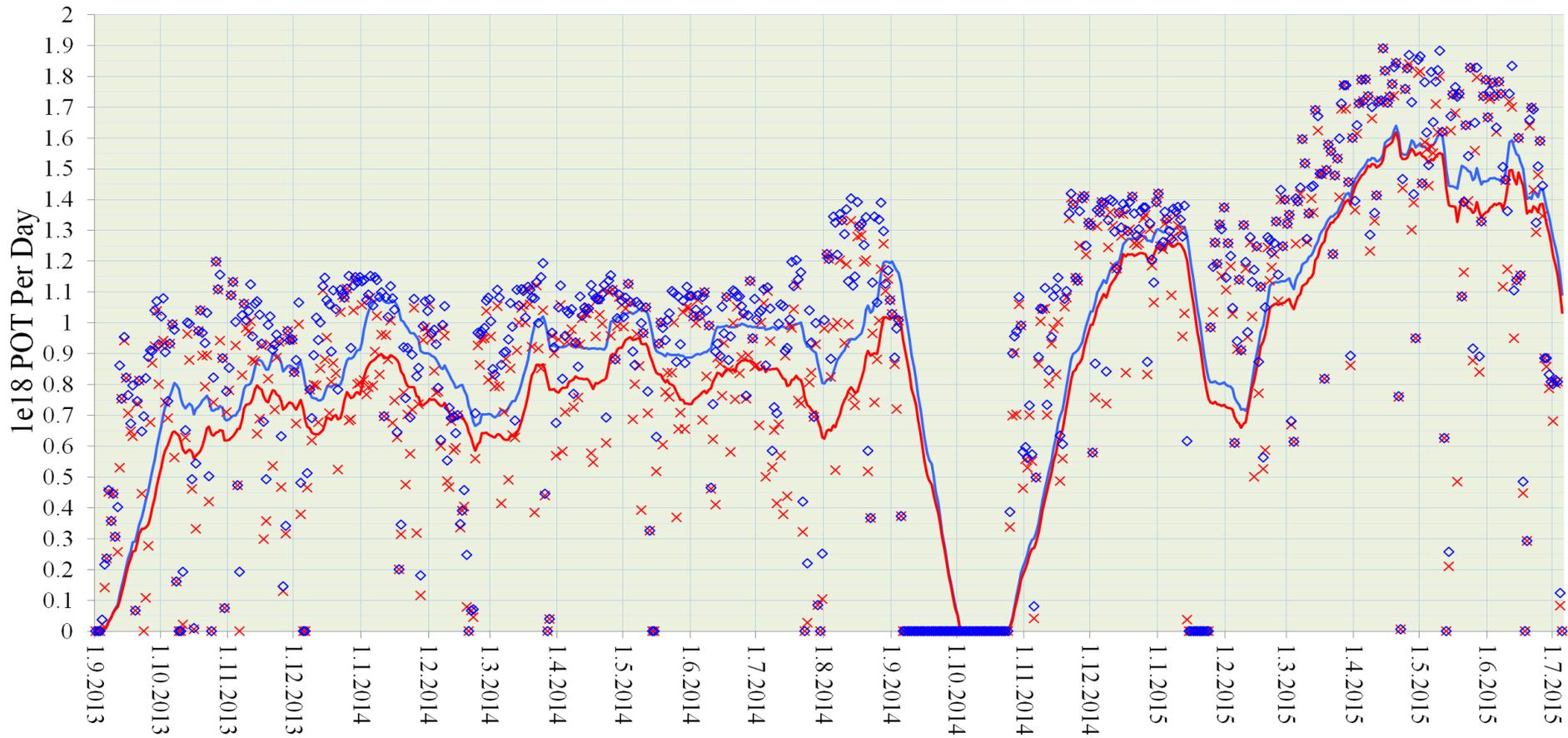
- Beam data taking finished without issues
- We prioritize tests, if not the case taking data (DDT, exotics).
- Over the hot weekend we again faced Air conditioning failures.
- Several tests and overall check-up done on Sun on the A/C unit.

FD: Data taking Uptime



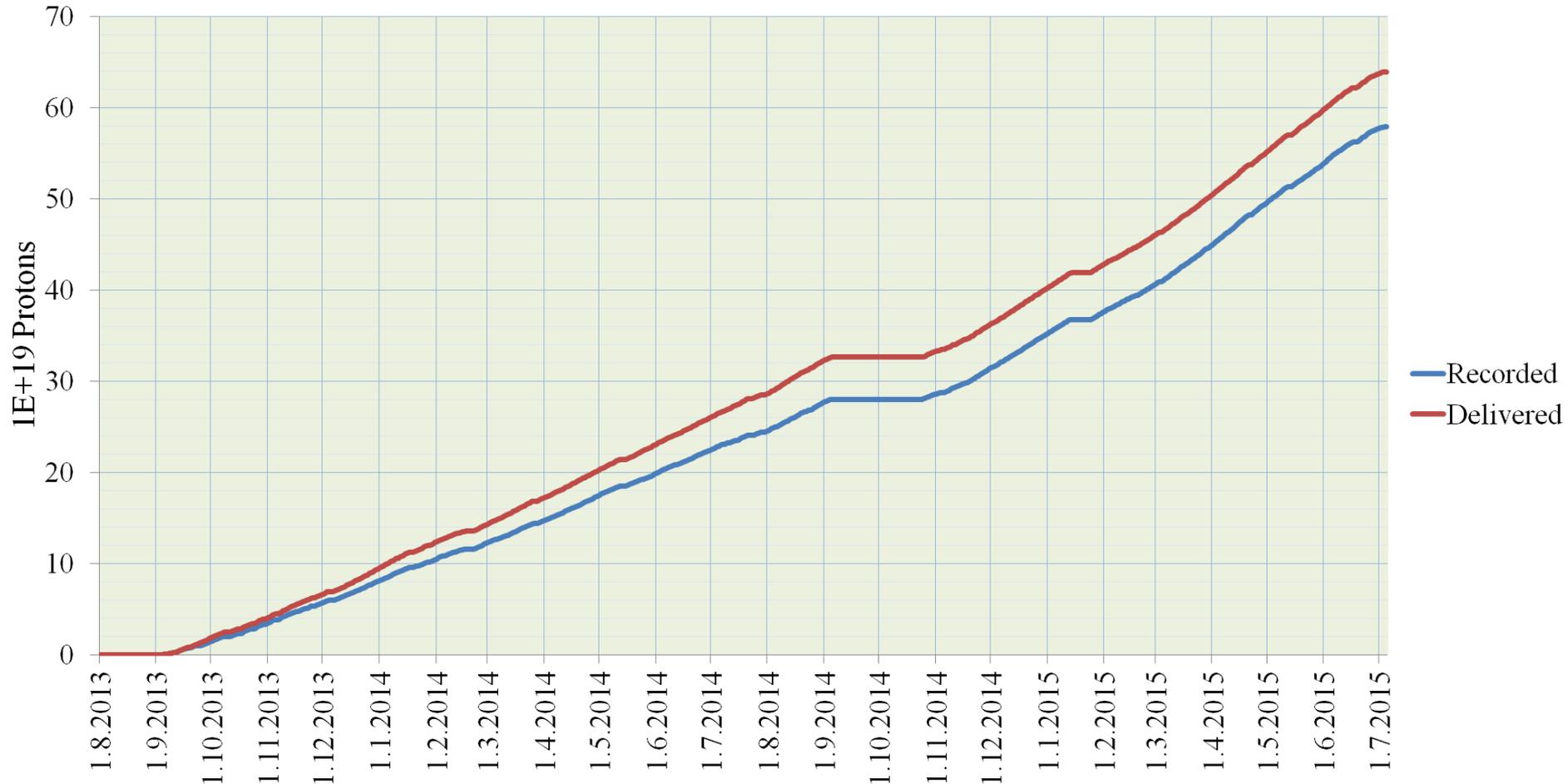
- Significant uptime improvement in the 2nd year of the NOvA experiment
- The long term uptime usually reached 95% in last months, including the maintenance periods (mostly done when beam down).
- Many DAQ tests and improvements foreseen during the summer beam shutdown.

FD: POTs delivered/recorded



- Thanks to the Accelerator division and NuMI people the absolute POTs were much higher.
- Due to the significant better performance of the DAQ and the FarDet efficiency increased
- The best period achieved in Mar/Apr period.

FarDet: Accumulated POTs

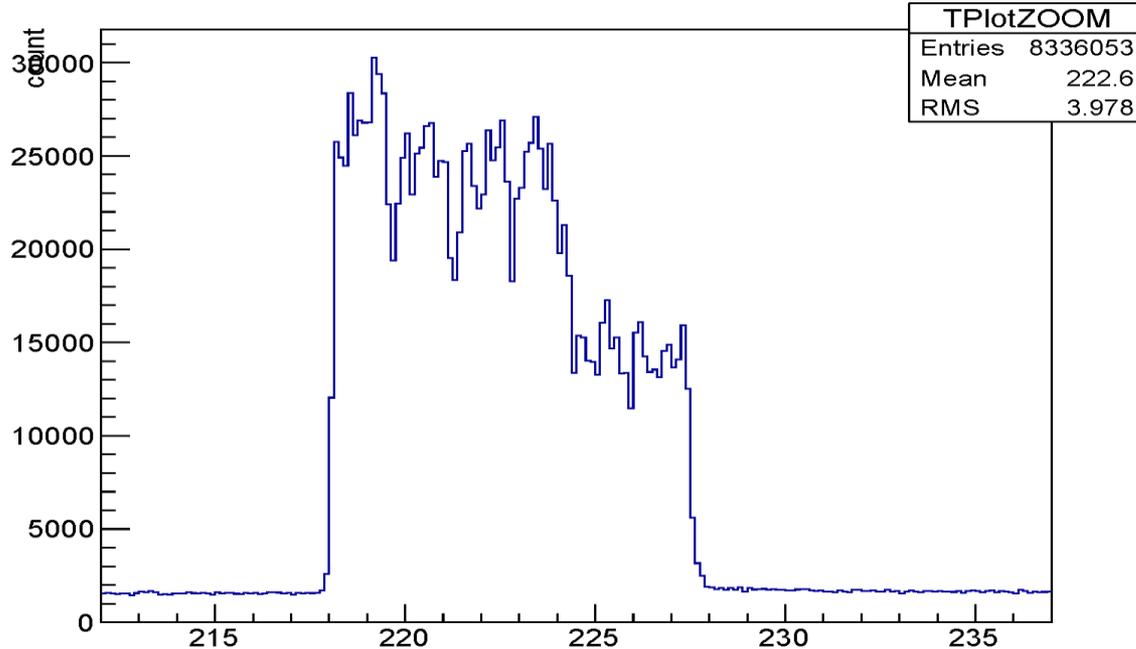


- **2013/14: 280/326 e18 POTs (86%) + 2014/15: 298.5/312.5 e18 POTs (95.5%) [253days]**
- *Including 20.8e18 POTs horn-off data and 2.6e18 non-nominal horn current data.*

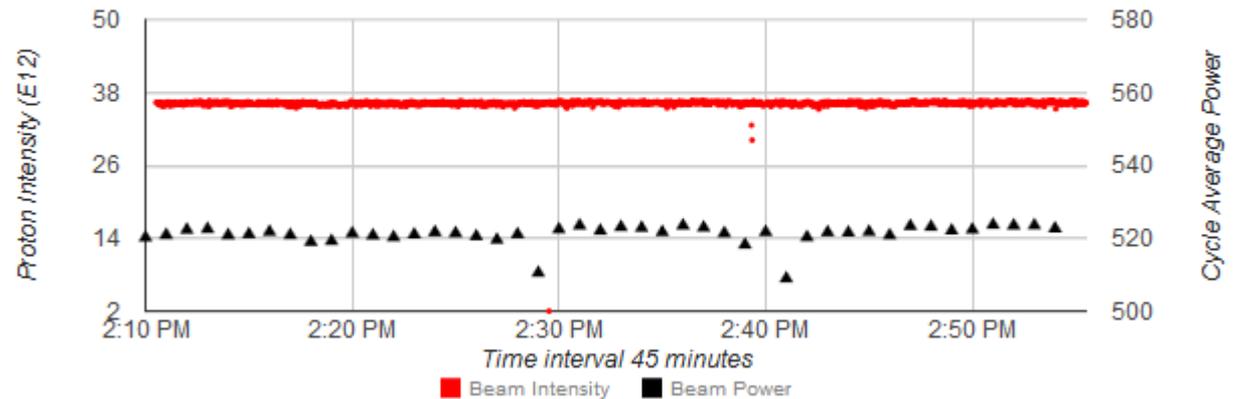
NearDet: 4+6 slip stacked beam



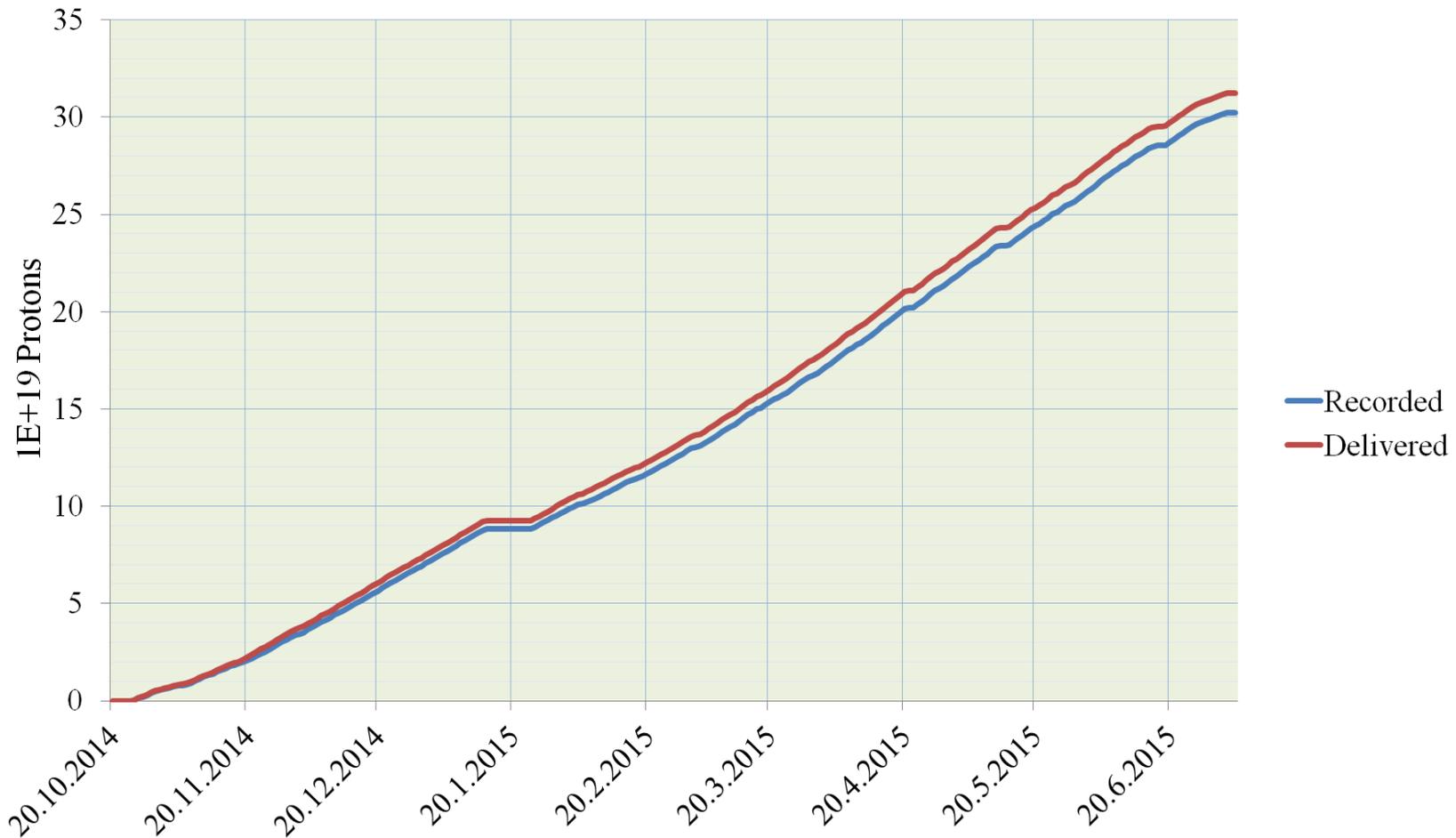
Time (w.r.t. trigger time) for ALL hits



Beam Intensity = 36.27 E12 Pwr = 522.75 KW (DT=1.33400 s) - A9 event 2015-07-01
14:55:32



NearDet: Accumulated POTs



➤ **2014/15: 302.3/312.5 e18 POTs (96.8%) [253days]**

➤ *Including 21.5e18 POTs horn-off data and 2.6e18 non-nominal horn current data.*