



NOvA Operations report for September 29 - October 26 , 2024

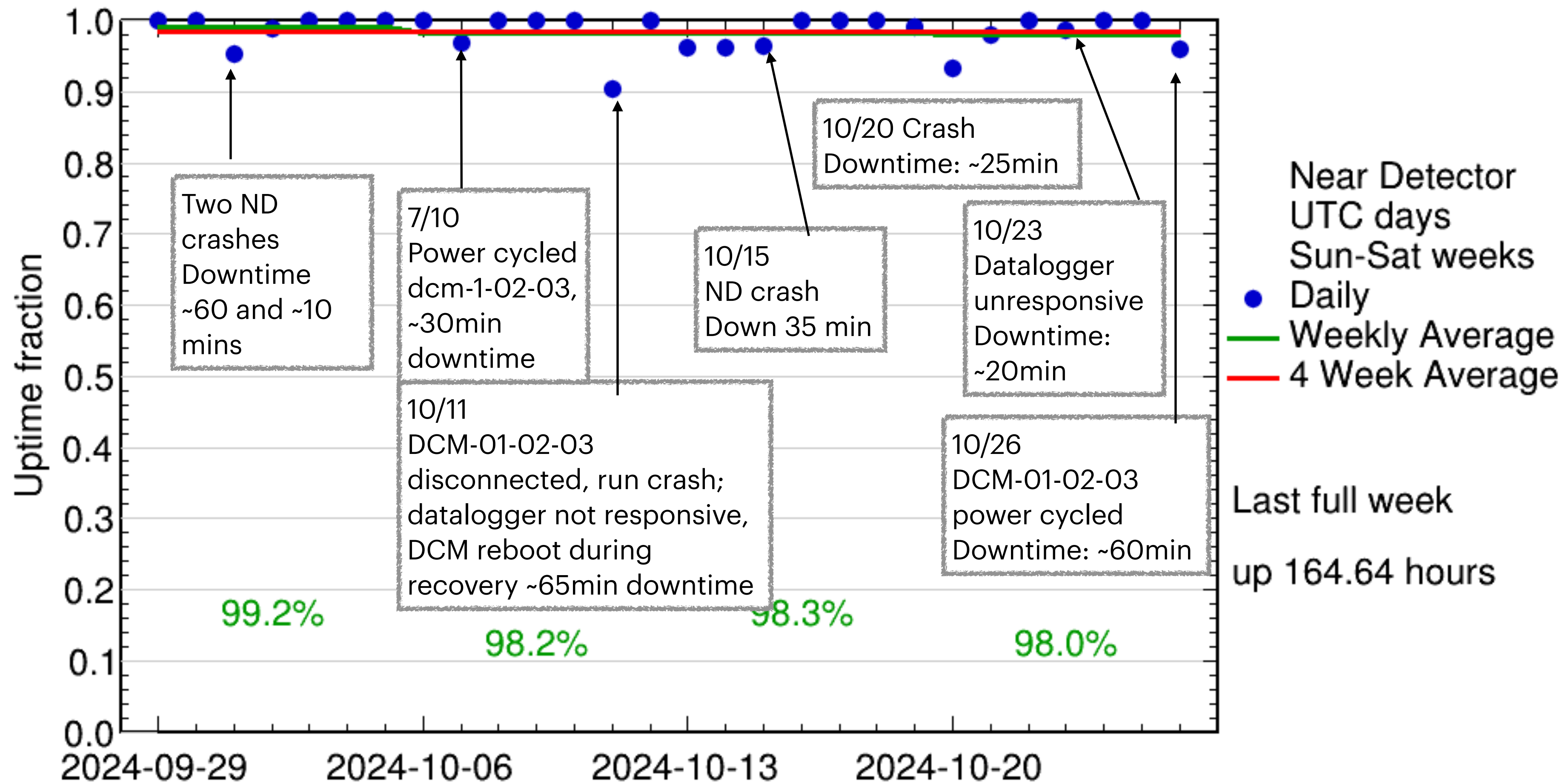
**Maria Martinez-Casales
with Taylor Contreras & Yagmur Torun**

**Proton PMG/ All Experimenter's Meeting
November 7th, 2024**

Operations Highlights

- Thank you to all shifters and experts for their hard work in keeping our detectors running.
- Taylor Contreras will take over in December.
- ND refurbishment work continues at LArTF: assembling APDs and vacuum testing.
- Detector performance improving since “indoor weather event” at Ash River
 - Hardware swap campaign continued this month
 - More swaps planned for the next two weeks
 - Compressor swap
- Implementation of 3.3 Hz Cosmic trigger (from 10Hz).
 - small (non-cosmic) subrun files (3 times) larger, cosmic files stay same size, 1/3 as many of each per day
- Near Detector stable (~3 crashes/week , >98% uptime)
- Far Detector had longer downtimes (~20 hr planned, ~16 hr unplanned)

Near Detector summary



Total POT recorded

46.25×10²⁰

FHC: 26.80×10²⁰

RHC:15.57×10²⁰

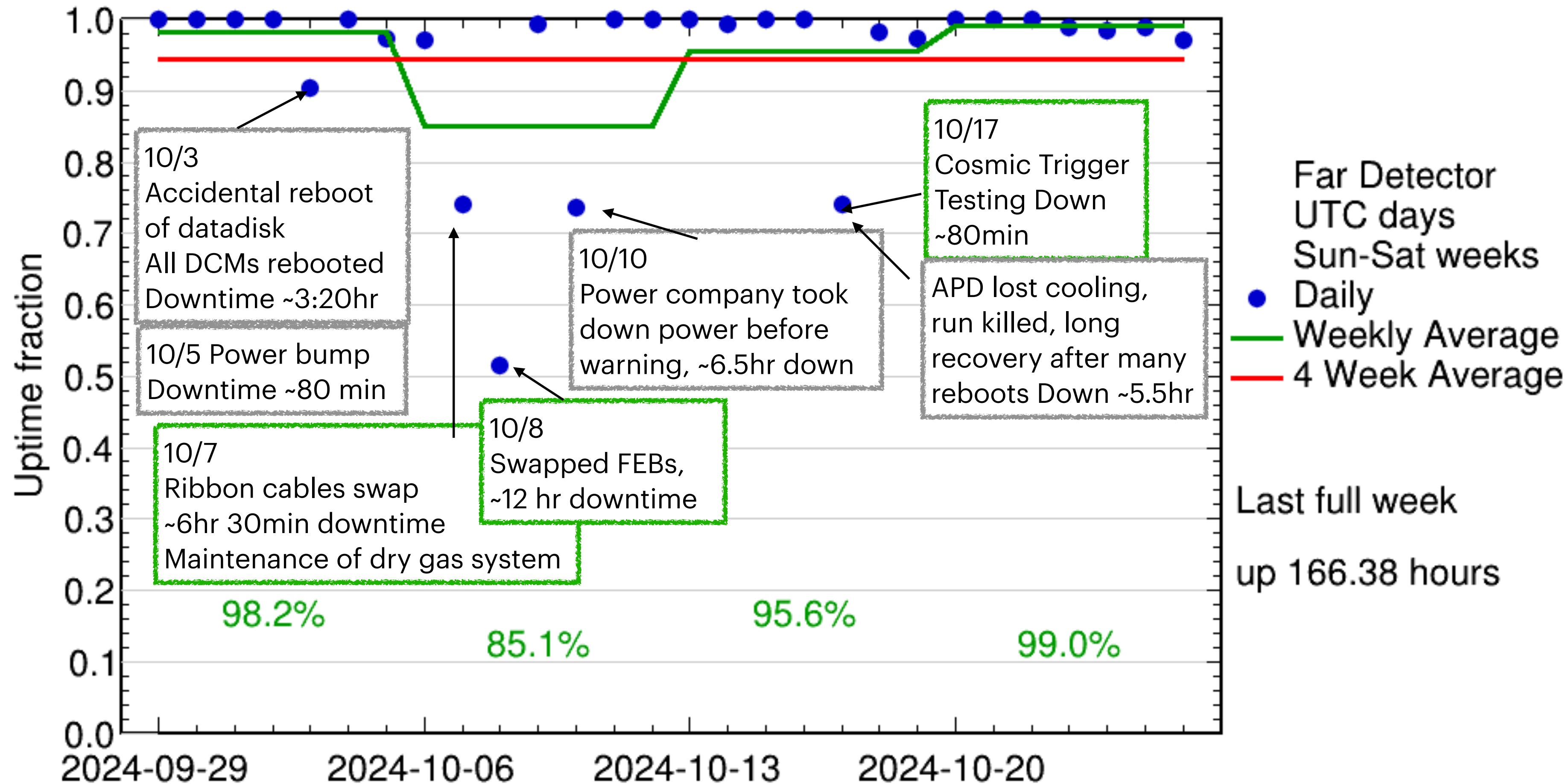
FY24 POT recorded

Delivered: 2.889×10²⁰

Recorded: 2.802×10²⁰

96.98%

Far Detector summary



Total POT recorded

44.95×10²⁰

FHC: 29.42×10²⁰

RHC: 15.54×10²⁰

FY24 POT recorded

Delivered: 2.889×10²⁰

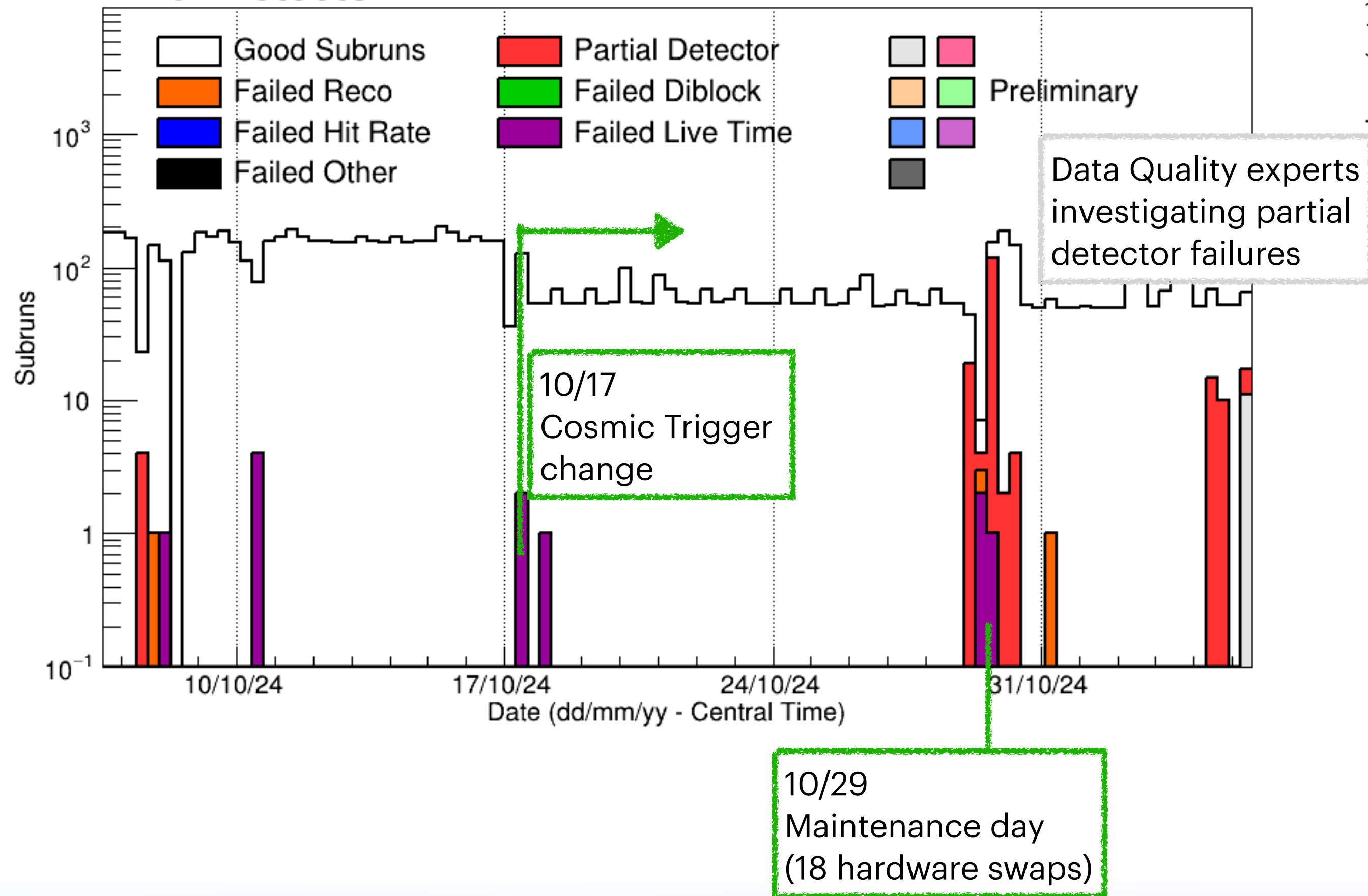
Recorded: 2.853×10²⁰

98.75%

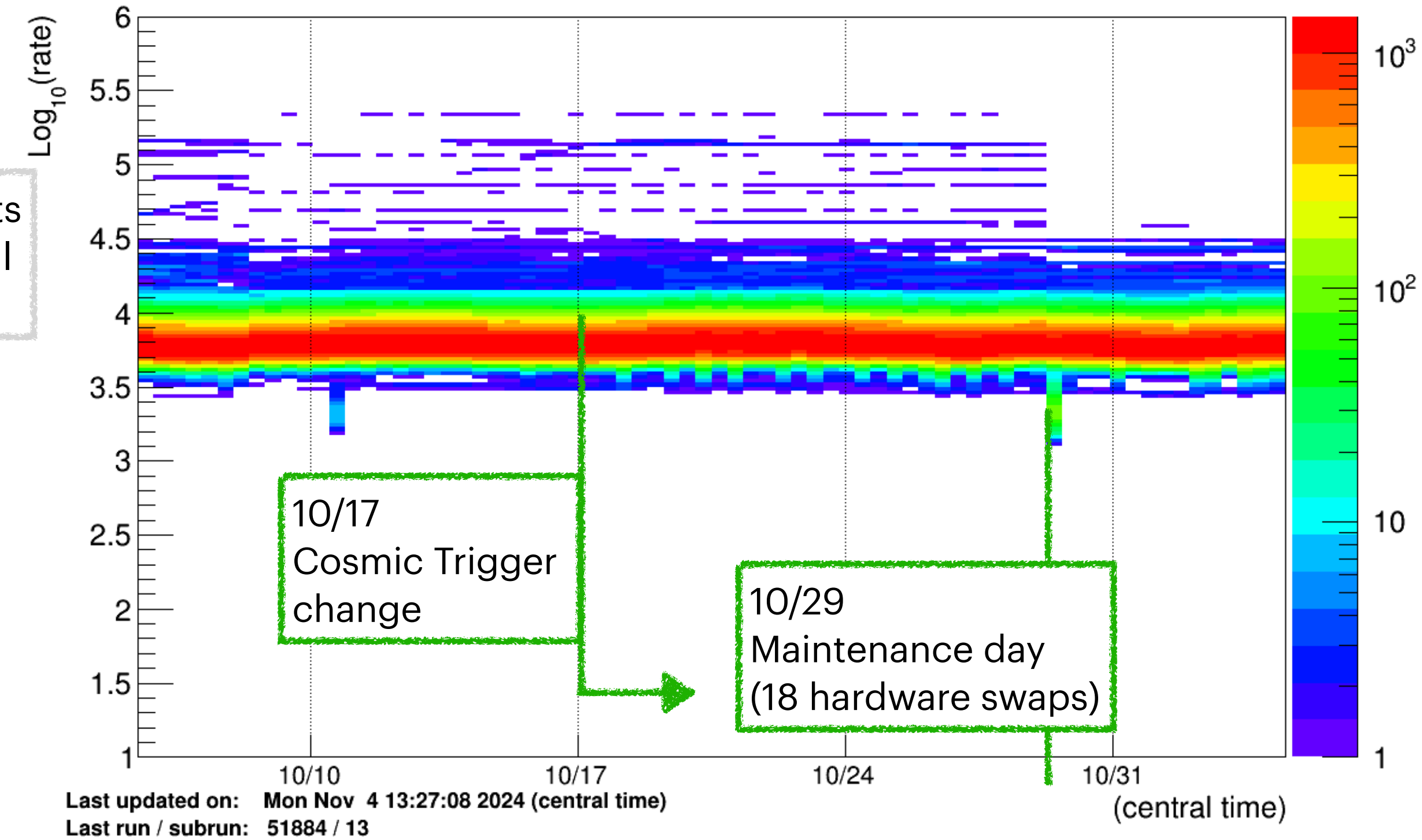
Far Detector summary

Far Detector

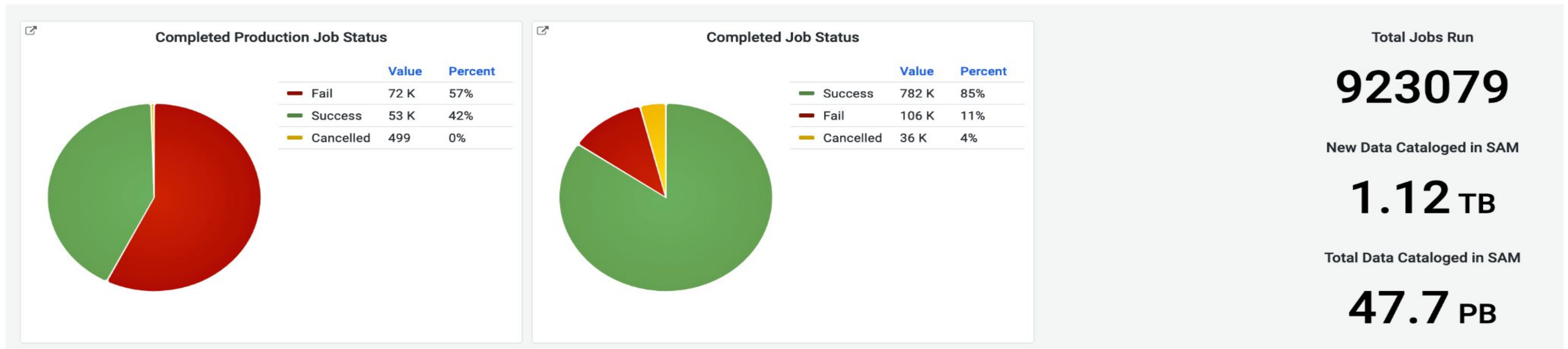
Last updated on: Tue Nov 5 12:05:53 2024



FEB Hit Rate Spectra vs. Time - partition 1



NOvA production/computing



- In October, NOvA ran a total of 923k jobs, of which 125k were from production.
- Keepup crashes have caused majority of production's job failures:
 - Change of the samweb.fnal.gov URI to samnova.fnal.gov
 - discovered the old samweb URI was hard-coded into old releases, causing these failures.
 - found a solution, working on implementing.
- Infrastructure:
 - have temporary workflows in place, in preparation of formal infrastructure with AL9.
- Preparing for second mini-production and new big production campaign starting ~January.
 - We have new students to assist in these campaigns