



Managed by Fermi Research Alliance, LLC for the U.S. Department of Energy Office of Science

Muon Campus Operation Report

Diktys Stratakis

Friday 09:00 Operation Meeting

April 22, 2022

Activities for the Past Week (1)

- Friday 04/15:

- Day: Provided beam to g-2; (~3h) interruption due to linac pump repair
- CTAG reduced compared to before the most recent 8 GeV study period
- Some improvement after tuning
- Provided beam to g-2 evening/owl shifts

- Weekend 04/16 and 04/17:

- Provided beam to g-2 all weekend
- PMAG and LENS magnets were tripping off and had to reset several times – caused minimum downtime

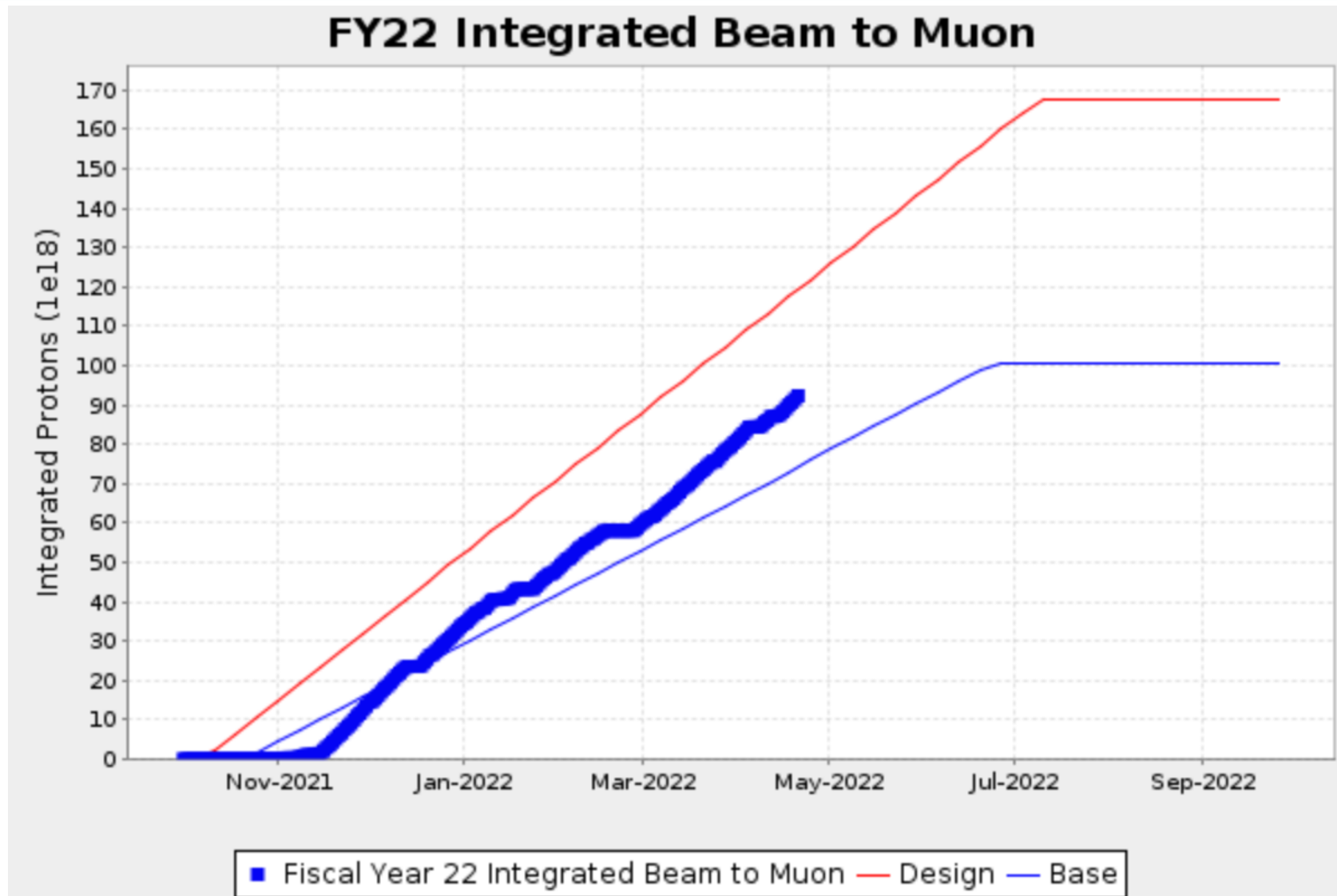
Activities for the Past Week (2)

- Monday 04/11:
 - Muon campus tuning with the goal to improve CTAGs
 - Provided beam to g-2 all day/evening/owl shifts
- Tuesday 04/12 & Wednesday 04/13:
 - Provided beam to g-2

Activities for the Past Week (3)

- Thursday 04/14:
 - 8 am: beam to g-2 off
 - 8 GeV Mu2e studies:
 - Commissioned DR tune monitor.
 - Resonant extraction studies
 - AP0 target blower maintenance
 - Evening/owl shifts: Provided beam to g-2 (after 9 pm)

Muon Campus protons on target



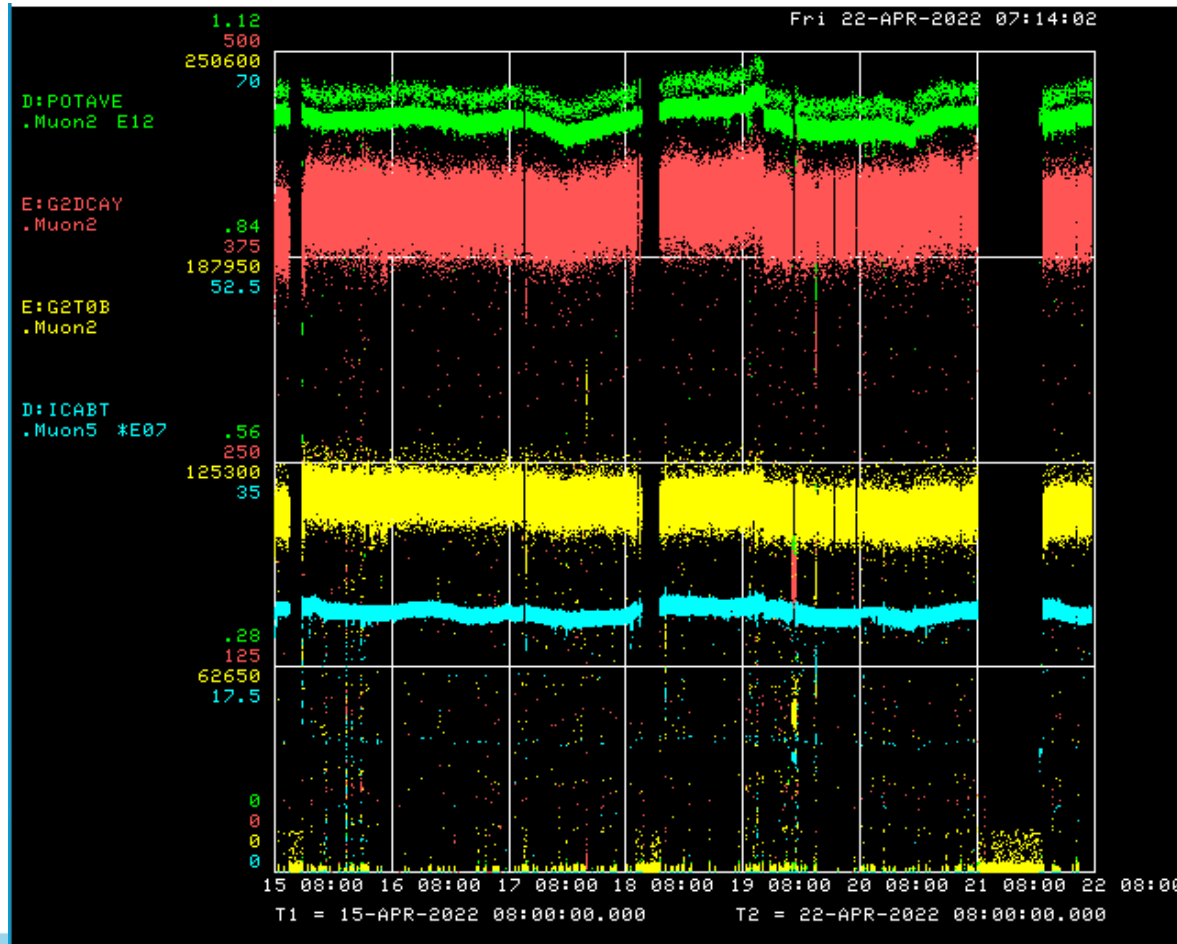
Beam to g-2

Linac pump
repair

Preacc. Emit. Scan
Trolley run

Mu2e studies

Plot last updated: April 22, 08:00



Protons to AP0
Target

g-2 Calorimeter-
Tagged Muon Decays
($\sum_{24 \text{ calos}} n_i$)

g-2 T0 Detector

Delivery Ring Abort

Plan for Next Week

g-2 operation:

- Today: Most likely beam tuning to improve tuning (Jim Morgan in contact with g-2 Runco)
 - Continue delivering beam to g-2 for the rest of the week
 - Continue studies in the Mu2e mode: Most likely April 28 but we will coordinate with g-2
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- An access into the Extraction Enclosure will be required before one of our highest priority studies so we will be looking for an opportunity when our collimator controls experts available.