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# Muon Campus Operation Report

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Friday 09:00 Operation Meeting

April 15, 2022

# Activities for the Past Week (1)

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- **Friday 04/08:**
  - Day: Commissioned M4 line in Mu2e mode: Run well up to bend H910: Problems with set & read-out of magnet H910
  - Day: Noticed problems with D:Q927 power supply
  - Provided beam to g-2 evening/owl shifts
- **Weekend 04/09 and 04/10:**
  - Provided beam to g-2 all weekend .
  - Noticed a 13% reduction in delivered muons compared to before installing V907 windows

## Activities for the Past Week (2)

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- Monday 04/11:

- Improved tuning in the M4 line resulted to a higher yield: the 13% discrepancy became 6%: Most likely due to the V907 scattering effects
- Provided beam to g-2 all day/night

- Tuesday 04/12:

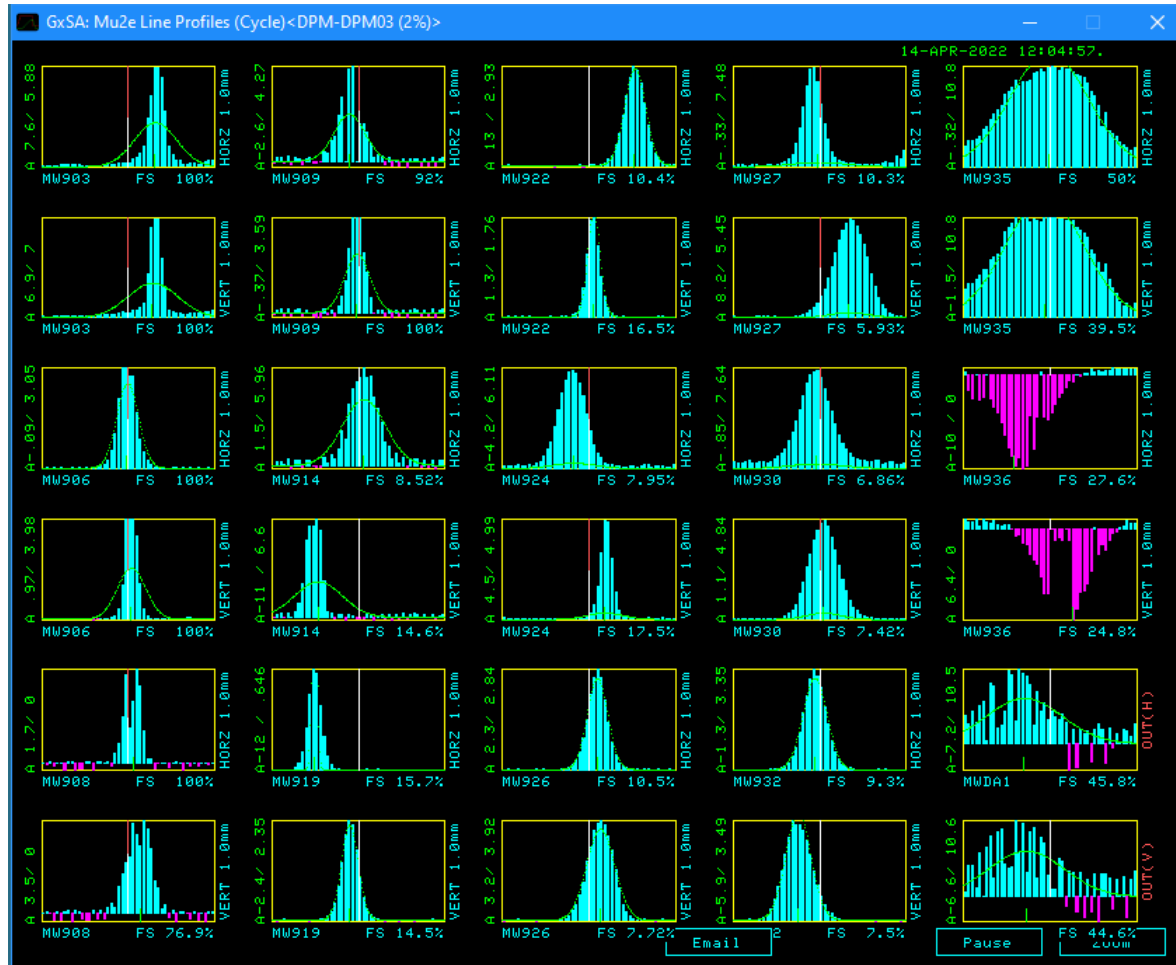
- Since 6 am: Accelerator downtime
- EE support begun work on D:H910 and D:Q927
- Set/Read-out issues for H910 resolved by the end of the day

## Activities for the Past Week (3)

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- **Wednesday 04/13:**
  - Work on power supply Q927 complete: Now up and running
  - Beam provided to g-2 overnight after downtime was over
- **Thursday 04/14:**
  - Day: Run in the Mu2e mode to commission M4
  - Day Commissioned beam to DA for the first time! (see next slide)
  - Establishing beam to the DA satisfies Mu2e project key performance parameter (KPP)
  - Night: Provided beam to g-2
  - Noticed a drop in g-2 stored muons: we hope with upstream tuning to resolve this issue.

# Beam commissioned to DA for first time



- We don't have an accurate number for the efficiency but we are confident that the efficiency is high

# Plan for Next Week

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g-2 operation:

- Continue delivering beam to g-2 for the rest of the week
- Continue studies in the Mu2e mode: Most likely ~2 shifts on April 21 but we will coordinate with g-2