

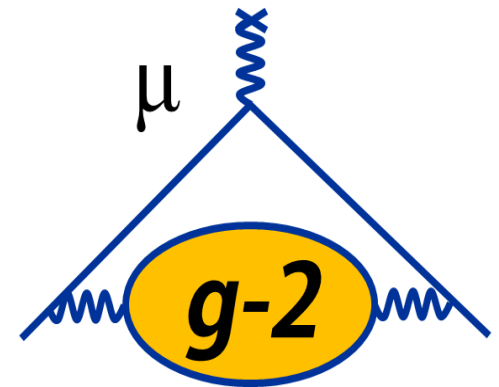


# Muon $g-2$ Update

M. Sorbara (INFN) / S. Corrodi (ANL) / C. Polly (FNAL)

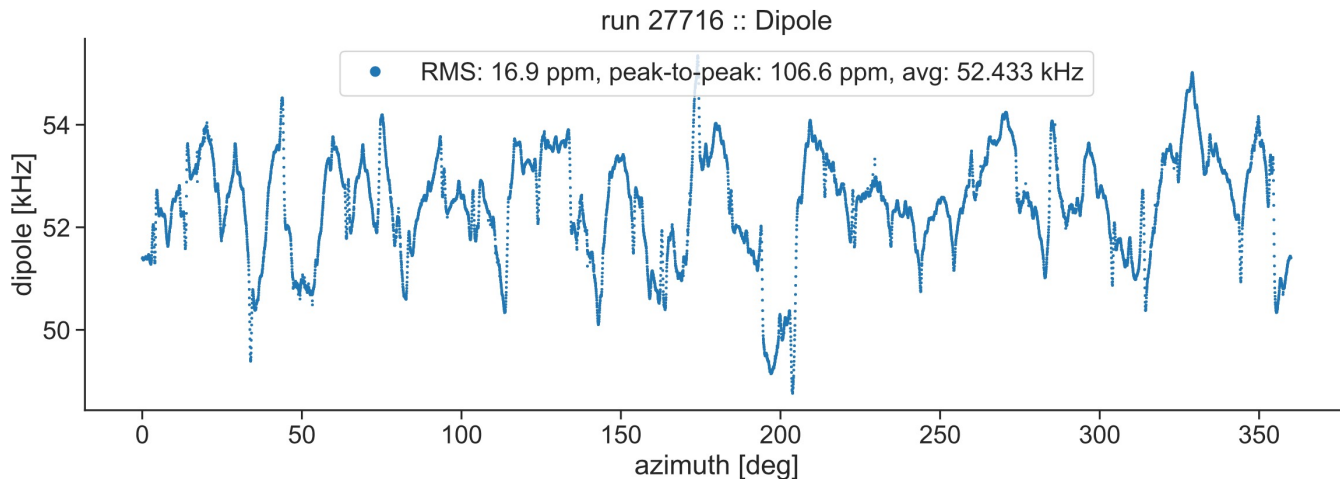
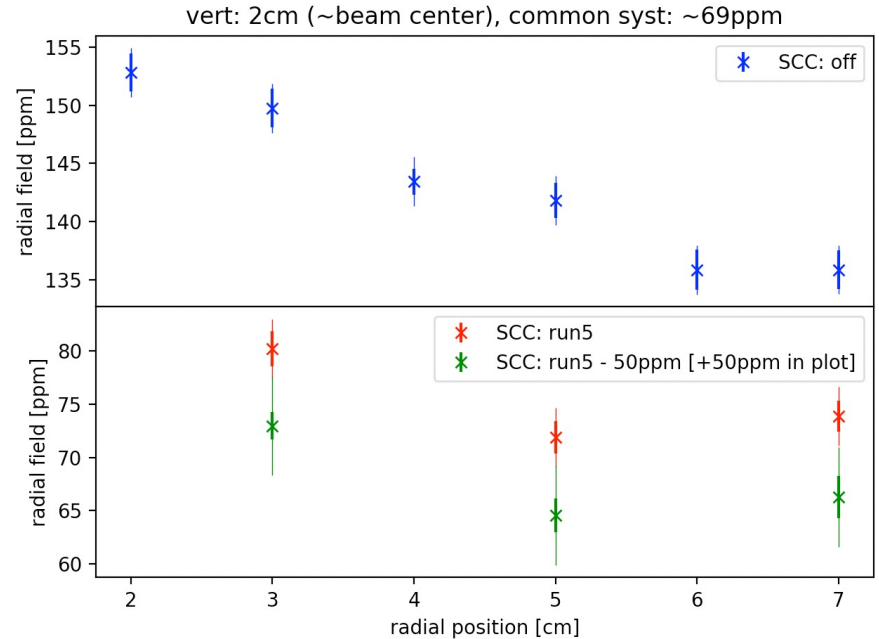
Proton PMG / All Experimenters Meeting

November 3, 2022



# Summer shutdown progress

- Field systematics campaign
  - Radial field distribution in different positions of the ring
  - Trolley garage effect
  - Image effect
- Trolley maintenance and calibration (completed last week)
- Wedge shimming to improve uniformity of the magnetic field in the storage region

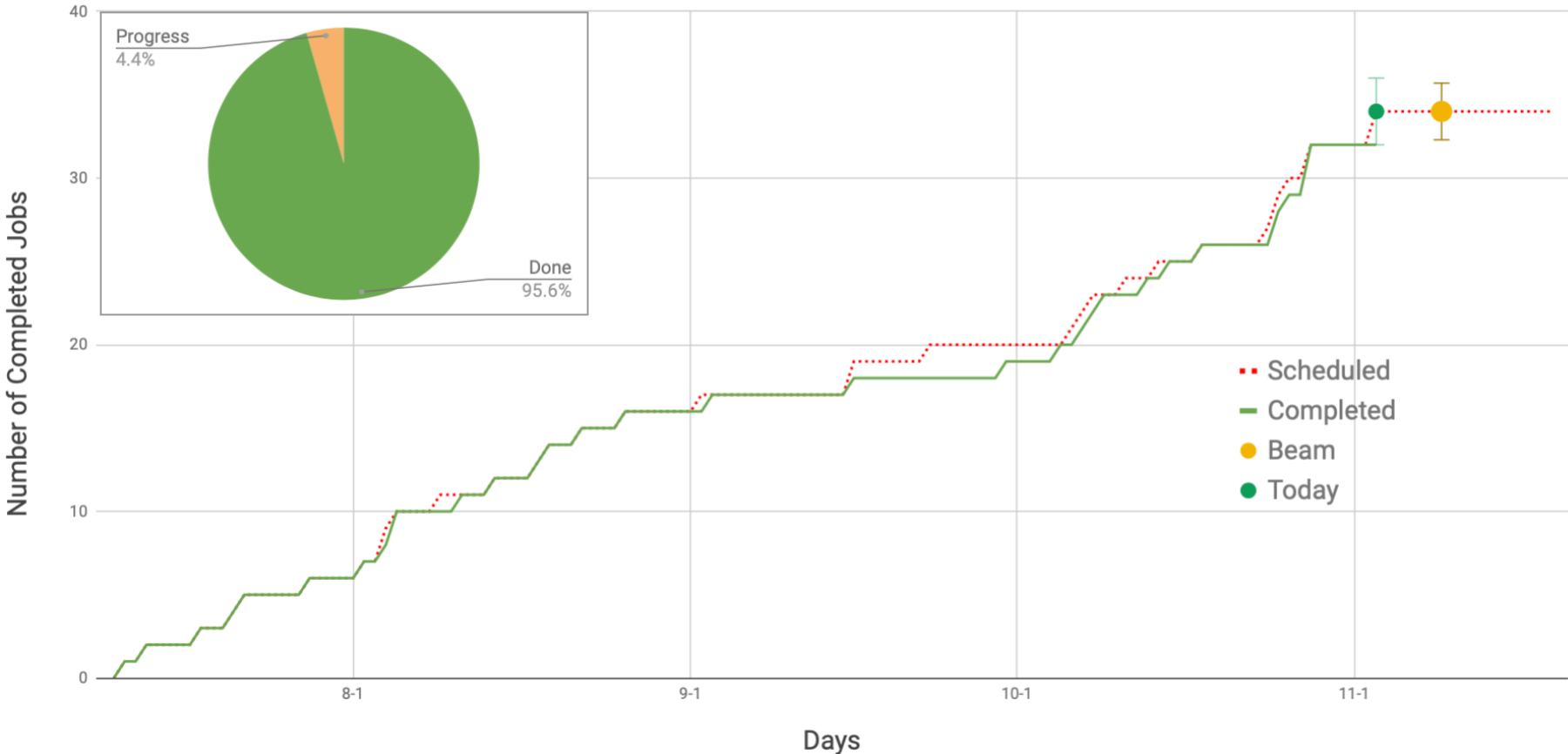


# Summer shutdown progress

- Detectors
  - Refurbished and installed 2 tracker modules (now running with all modules in)
  - Fiber harps maintenance and operations test completed
  - Calorimeters maintenance completed
- Systems start up
  - Clock blinded
  - All detectors are on
  - Conditioning kickers and quadrupoles until beam is established
- DAQ
  - Spotted some bad disks in the DAQ and in one Calo machines
    - All changed and now in operations
  - DAQ is running quite smoothly
  - Calorimeters calibration + laser studies are ongoing

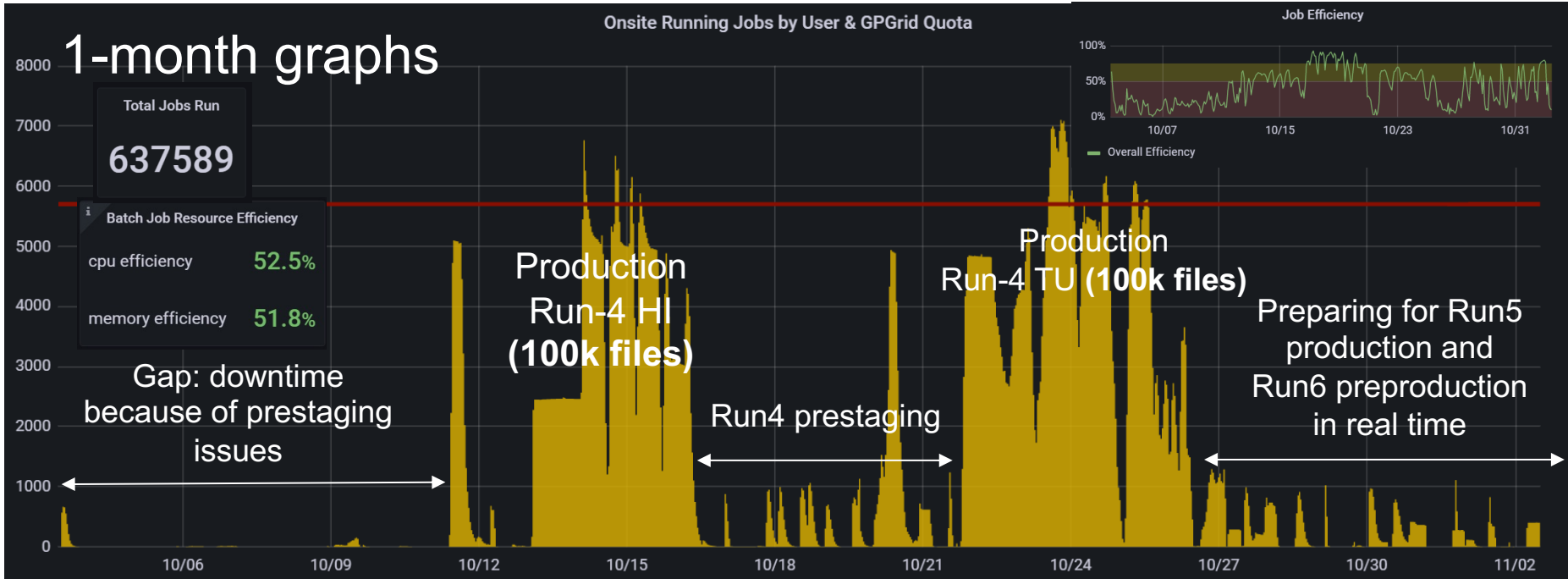
# Summer shutdown progress

Shutdown Progress

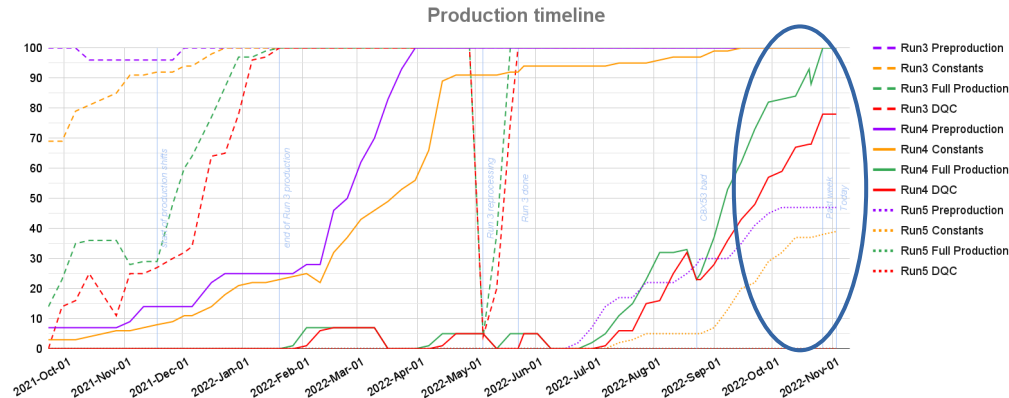


- Shutdown tasks completed
- Cryopumps installed; getting ready for operations
- Ready for beam

# Status of Offline Production



- Run-4 full-production completed at 100%
- Run-5 pre-production is at 50%, we will start full-production soon
- Preparing to run Run-6 pre-production in real time with data acquisition
- More than double our production speed wrt last year
- Prestaging issue solution: new scheme in place, migration plan implemented by CSAI to reduce impact for other experiments and improve pre-staging speed for g-2



# Summary

- Shutdown completed
  - Some delays in the last months due to Fdr-46 cable replacement
  - Good progress overall
  - All tasks addressed
- Run 6 Operations
  - Run plan ready, needs to be adjusted to account for Mu2e studies
  - Experiment is ready for beam
  - Shifters plan from the collaboration ready
- Good progress in the data production
  - Run 4 full production completed
  - Run 5 pre-production at 50%; planning to start soon the full production
  - Getting ready to process Run 6 data in real time