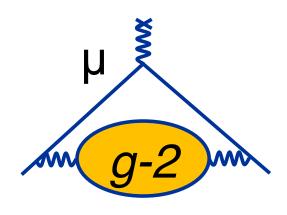


MUON G-2 UPDATE



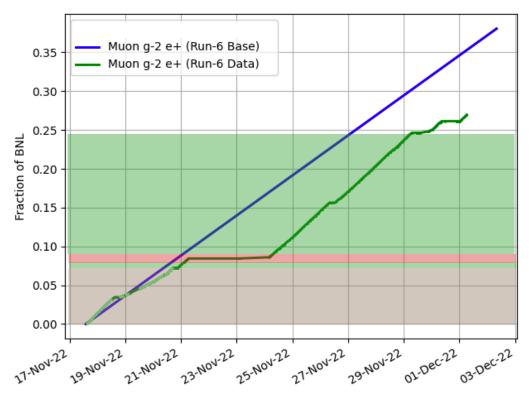
S. CORRODI (ANL)/M. SORBARA (INFN)/C.POLLY(FNAL)

Proton PMG/ All Experiments Meeting 12/01/2022



START OF G-2 RUN 6

The experiment was ready for beam: starting ~10/24



continue with physics data muon storage rate is on the same level as last year, ~30% below our best times

physics data over the holidays!

~3 days downtime: next slide
9h run-6 physics data (11/20)
System tune up and calibration runs.

First beam to g-2: 11/17. Thanks!





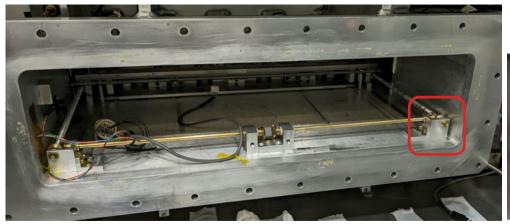
3 DAYS OF DOWN TIME

Part 1)

- Leaking straw tracker causing the storage vacuum to degrade (close to ~1x10-5 torr)
- locating the leaking tracker (RGA test): ~1 day, replaced the module ~1 day

Part 2)

- magnetic field mapper (trolley) got stuck during insertion into the ring
- -> stuck rod/bearing fixed, required a magnet and vacuum cycle









DETAILS ON RUN-6 OPERATIONS

First year with a **single fully remote** shifter, we used to have 2 before +1 local cryo operator

MCR-shifter communication: using Telzio, in coordination with other experiments so far very good experience since 11/17: 101 calls, 147min total

"Quasi-online" pre-production:

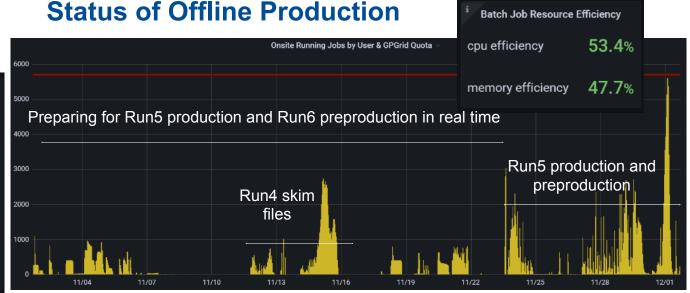
Developing and testing a scheme to run the pre-production of our data while the files are still staged in the write pool



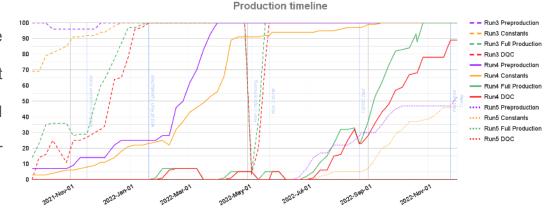


Total Jobs Run 753916





- Run-4 full-production completed at 100%, we are producing skim files
- Run-5 production has started, pre-production is at 53%
- Managed to more than double our production speed with respect to last year
- New prestaging scheme in place to reduce impact for other experiments and improve speed for g-2



Batch Job Resource Efficiency