

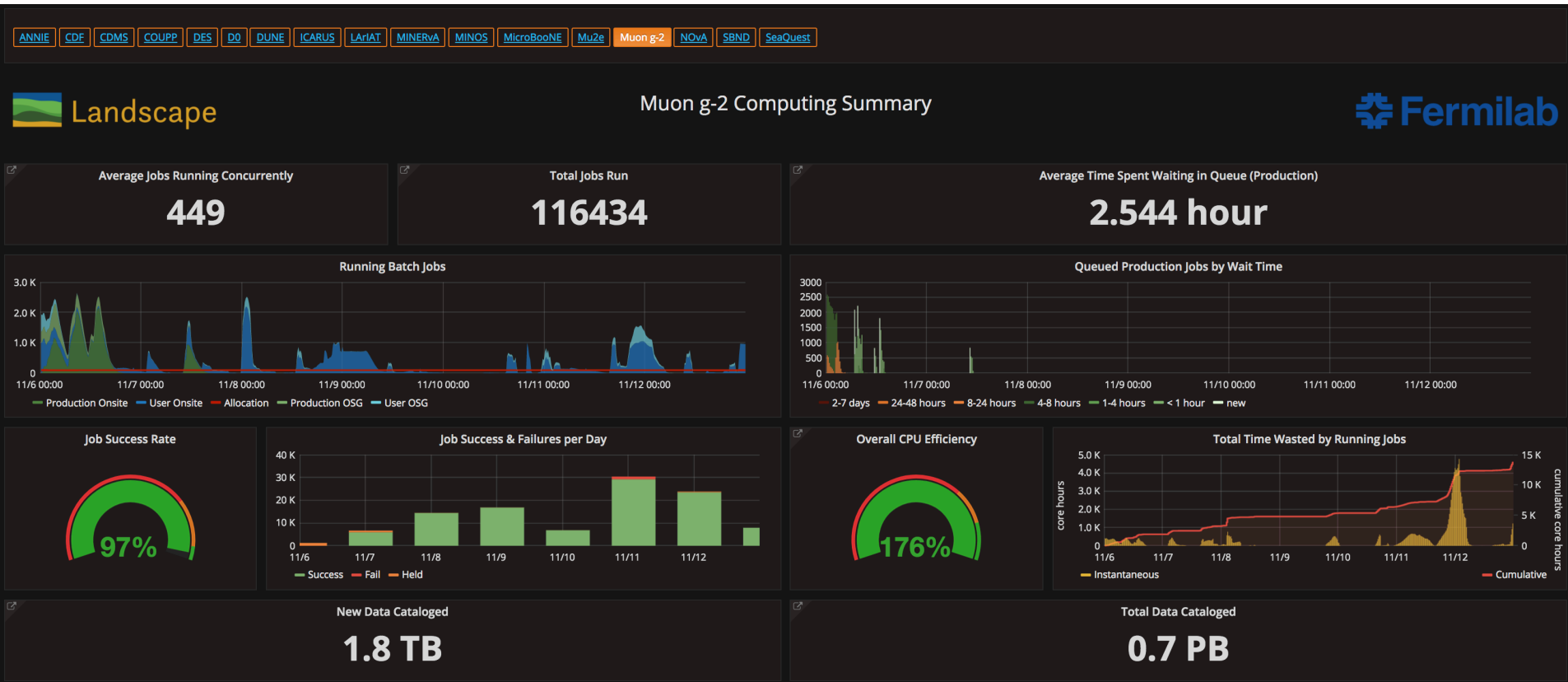
Muon $g-2$ AEM Update

Brendan Kiburg, Jarek Kasper

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Computing Update

- Some high-rate data reprocessing



- Expect this to be ramping up late this week (more high-rate laser tests and beam)

Shutdown update week of 10 / 30

- Inflector (magnet to inject beam into ring)
 - Reconnected, ramped on Saturday, tripped due to power glitch on Sat.
- Kicker and Quads (Injection systems to put/keep muons on proper orbit in ring)
 - Continued to upgrade the controls of these systems. Both were pulsing on Saturday.
 - Fluorinert leak on K3 localized.
- IBMS (Incoming Beam Monitoring System to measure profile of beam at end of beamline)
 - Upgraded DAQ, and online tools.
- Collimators (Copper rings limiting beam size to 9cm in radius)
 - Surgery successful, aligned, and re-commissioned.
- Calorimeter (measure decay positrons from muons)
 - Operating 22 / 24 calorimeters. Ready to recommission final 2 later today.
- Tracker (measures spatial profile of decay positrons)
 - Installation of all 16 modules to be completed later today.
 - Commissioned gas panel, LCW, air cooling, last tweaks to DAQ.
- Trolley (Maps the magnetic field when the muon beam is off)
 - Installed. Adjustments and alignment in progress.
 - Took partial field maps in vacuum and field.
 - Took a go-pro run at atmosphere.
- Cryopumps (increases pumping speed to storage ring)
 - Continued Infrastructure installation

Plan Forward

- Main focus for Week of Nov 13th:
 - In vacuum work
 - Trolley garage adjustments
 - Measure Kicker 2 pulse using Magnetometer
 - Install (3) Cryopump gate valves.
 - Complete cryopump infrastructure
 - Preparing for first beam week of Nov 13th
(~**Thurs Nov 16th target**)
 - Field measurements with trolley
 - Install Trackers up to the vacuum spec
 - Inflector/Quad/Kicker tuneup