

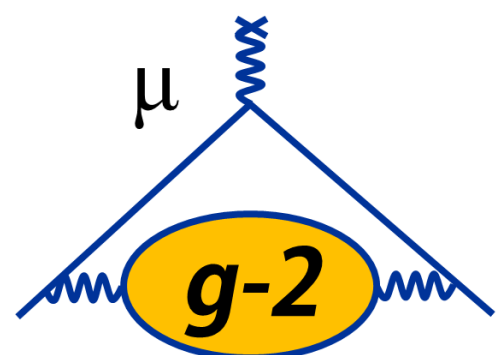


Muon g-2 Update

David Flay, Operations Manager

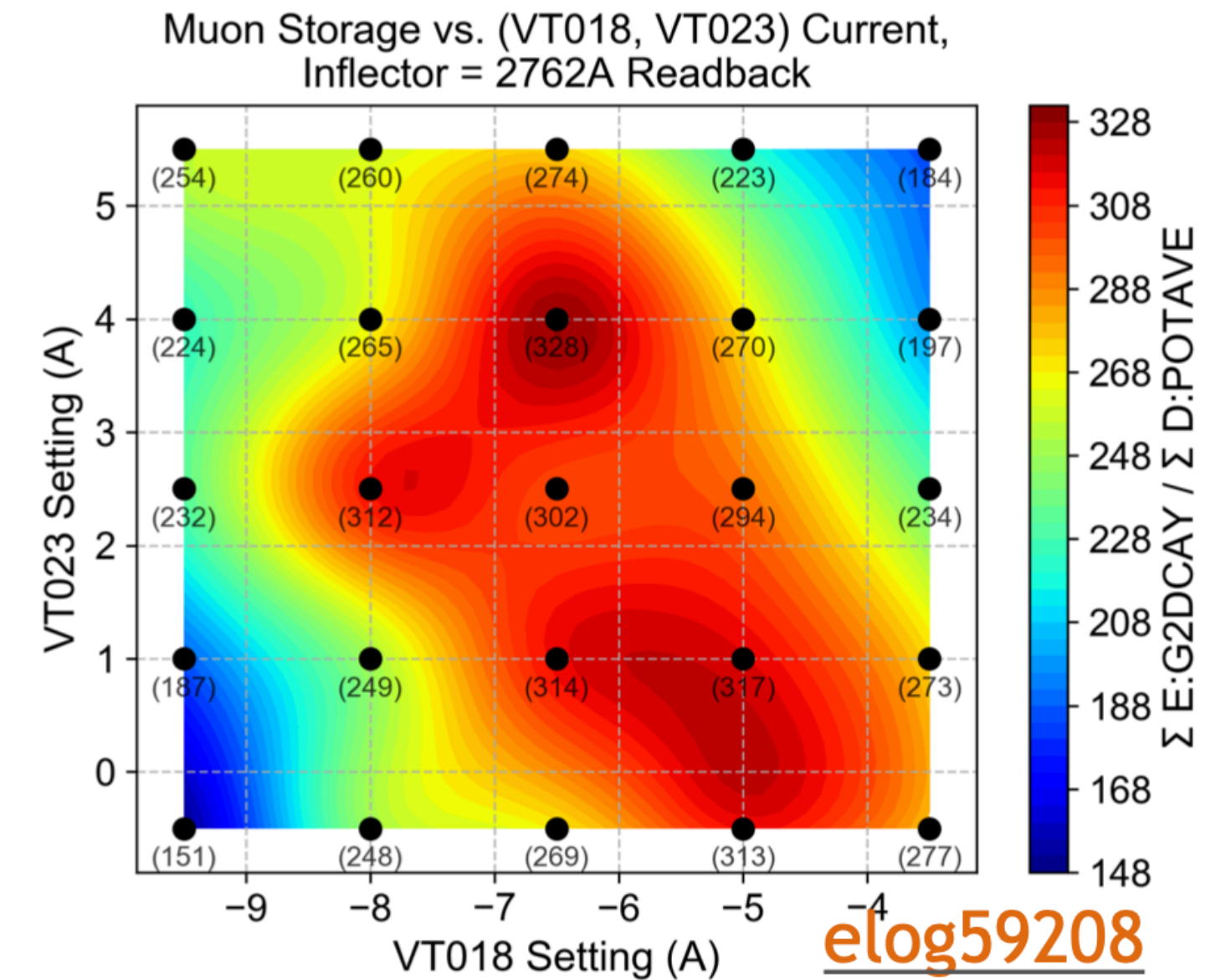
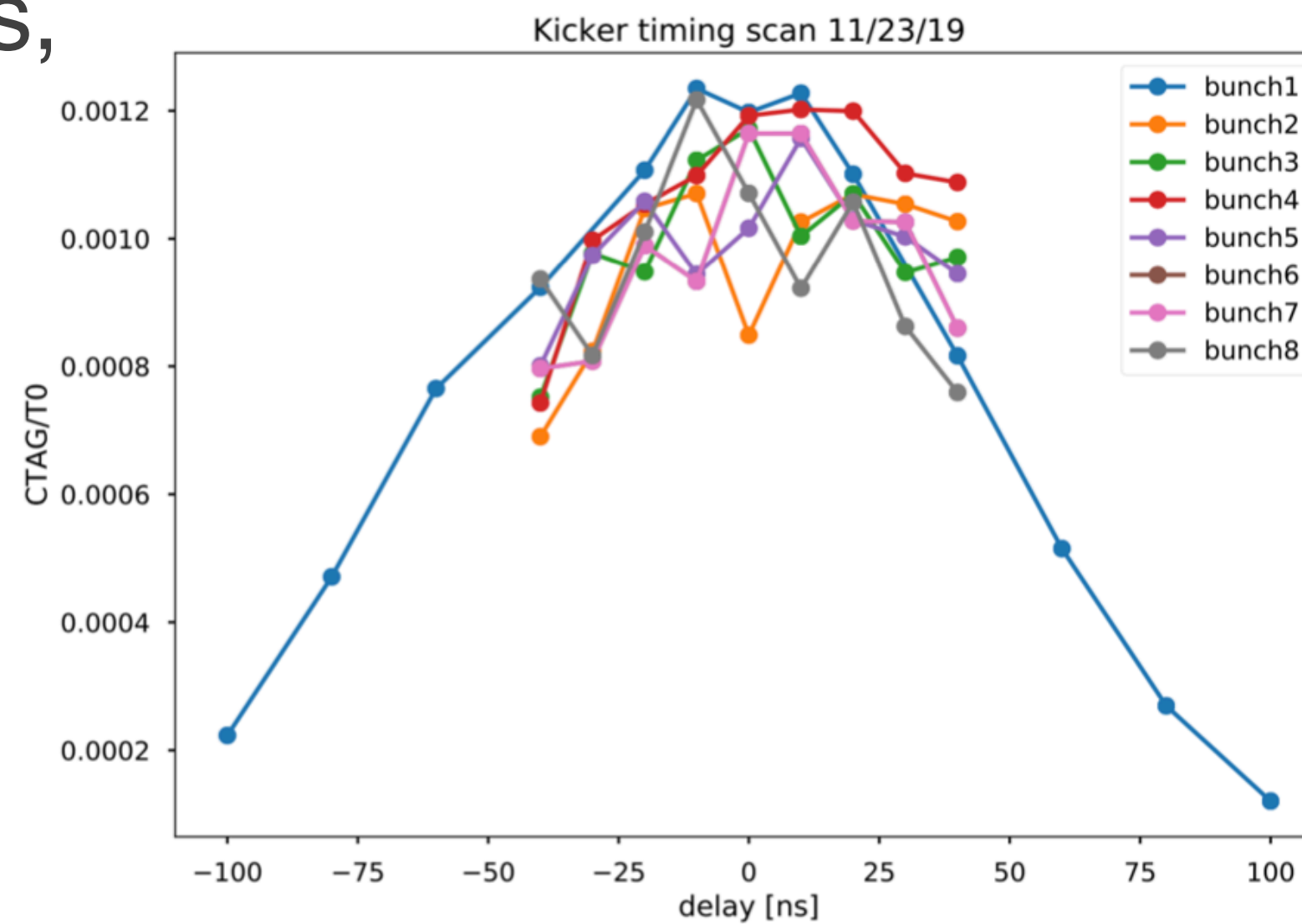
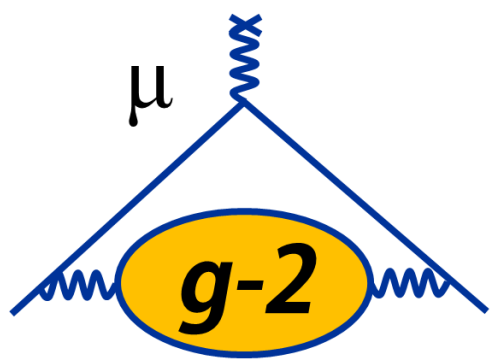
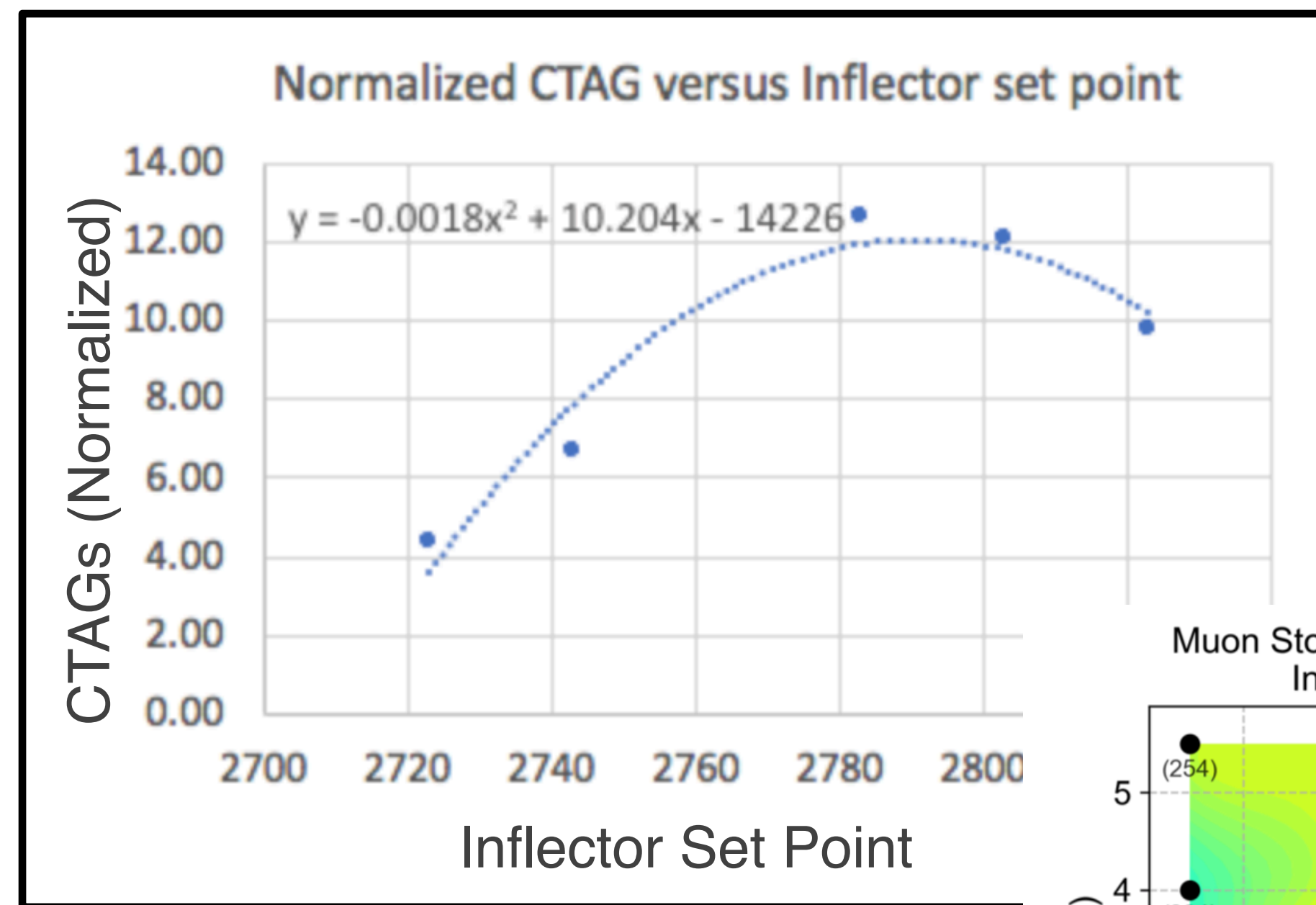
Proton Program Management Group Meeting

5 December 2019



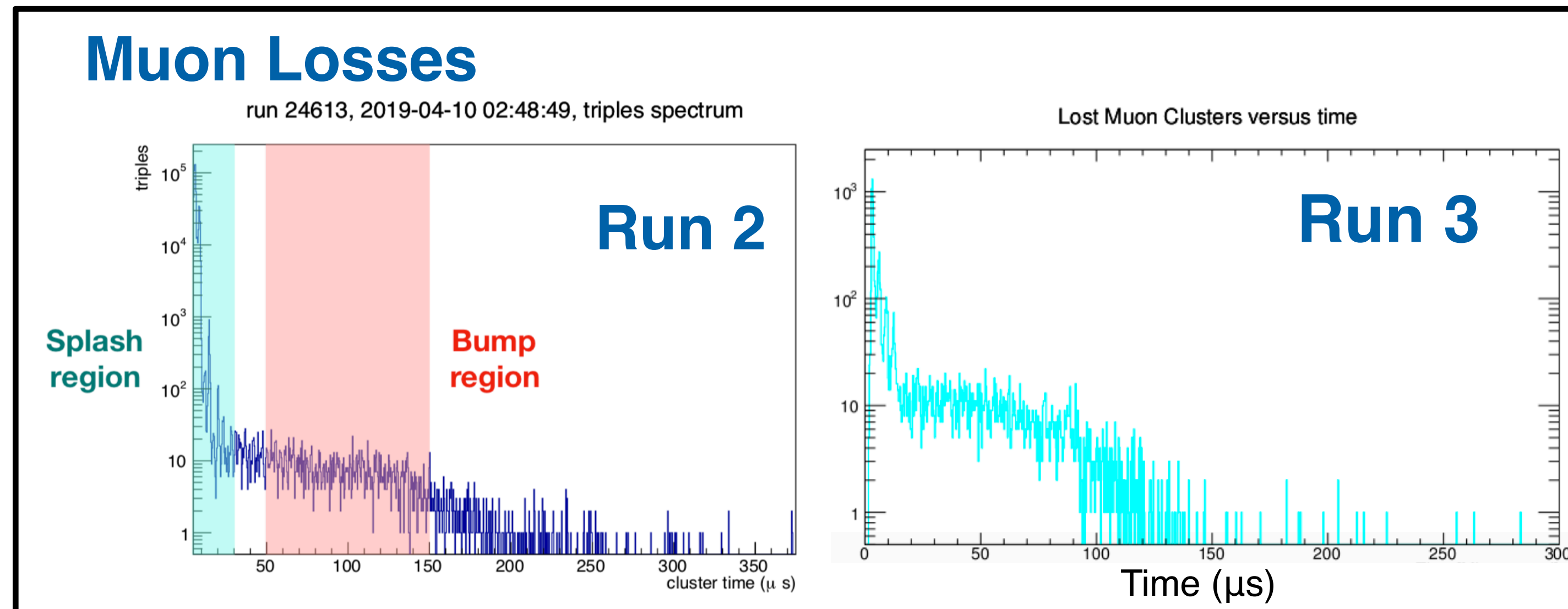
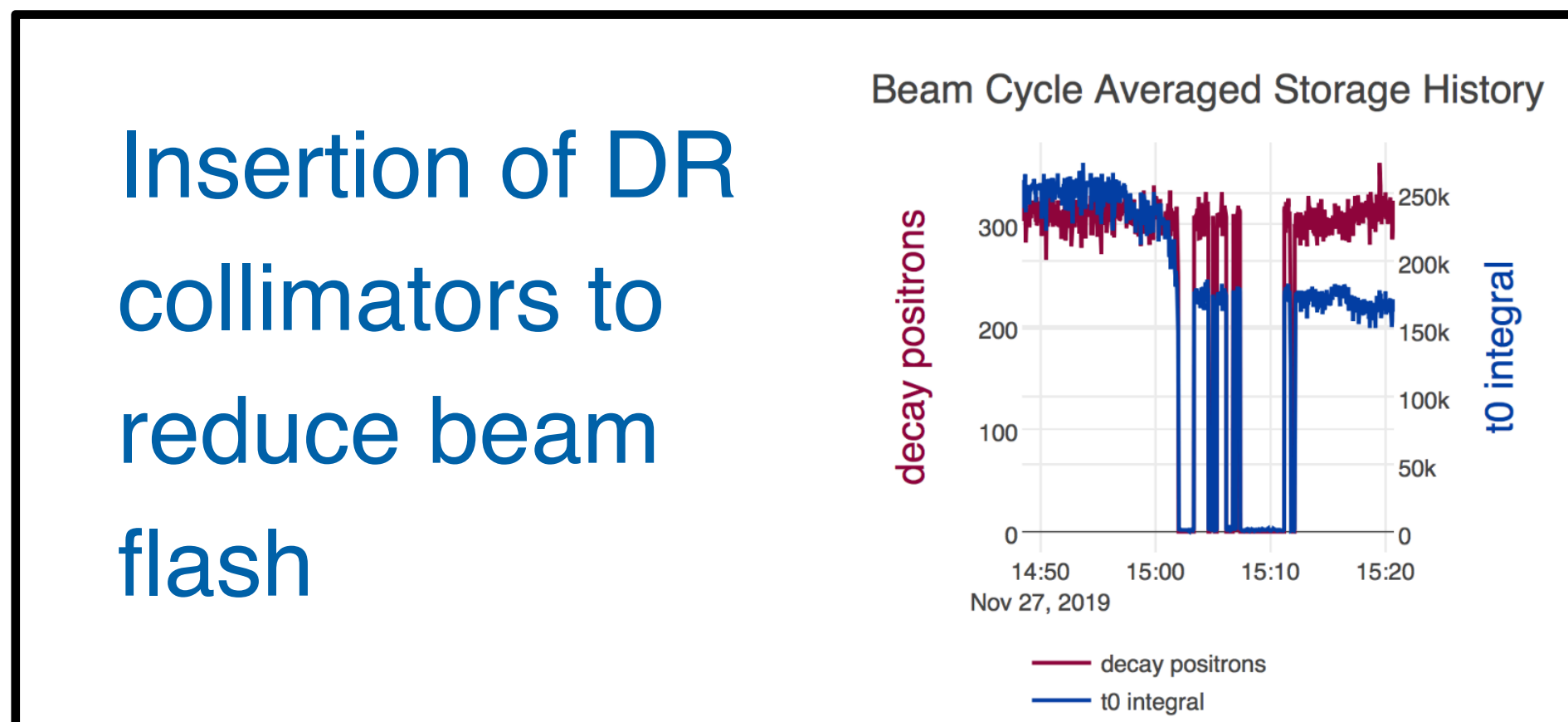
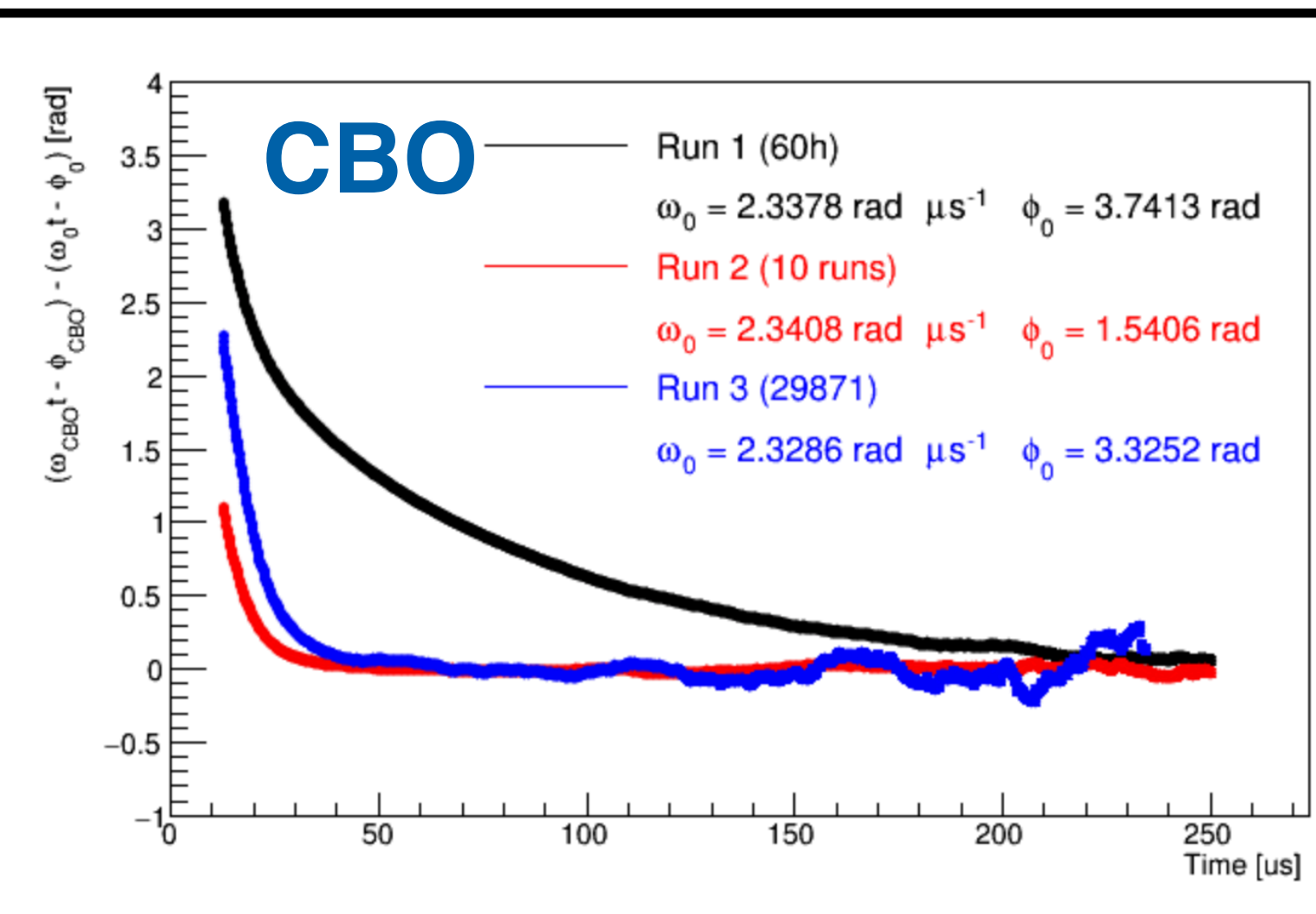
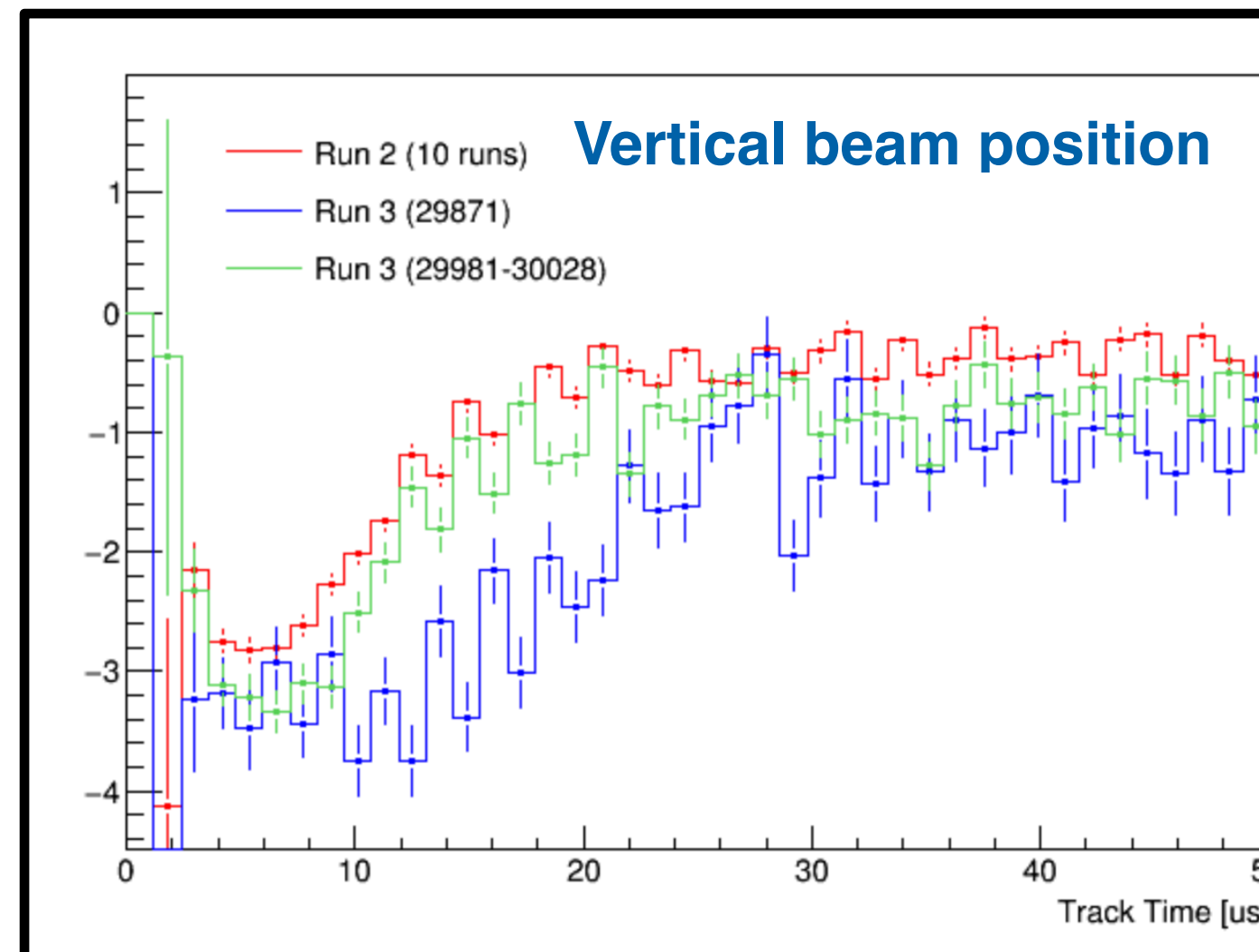
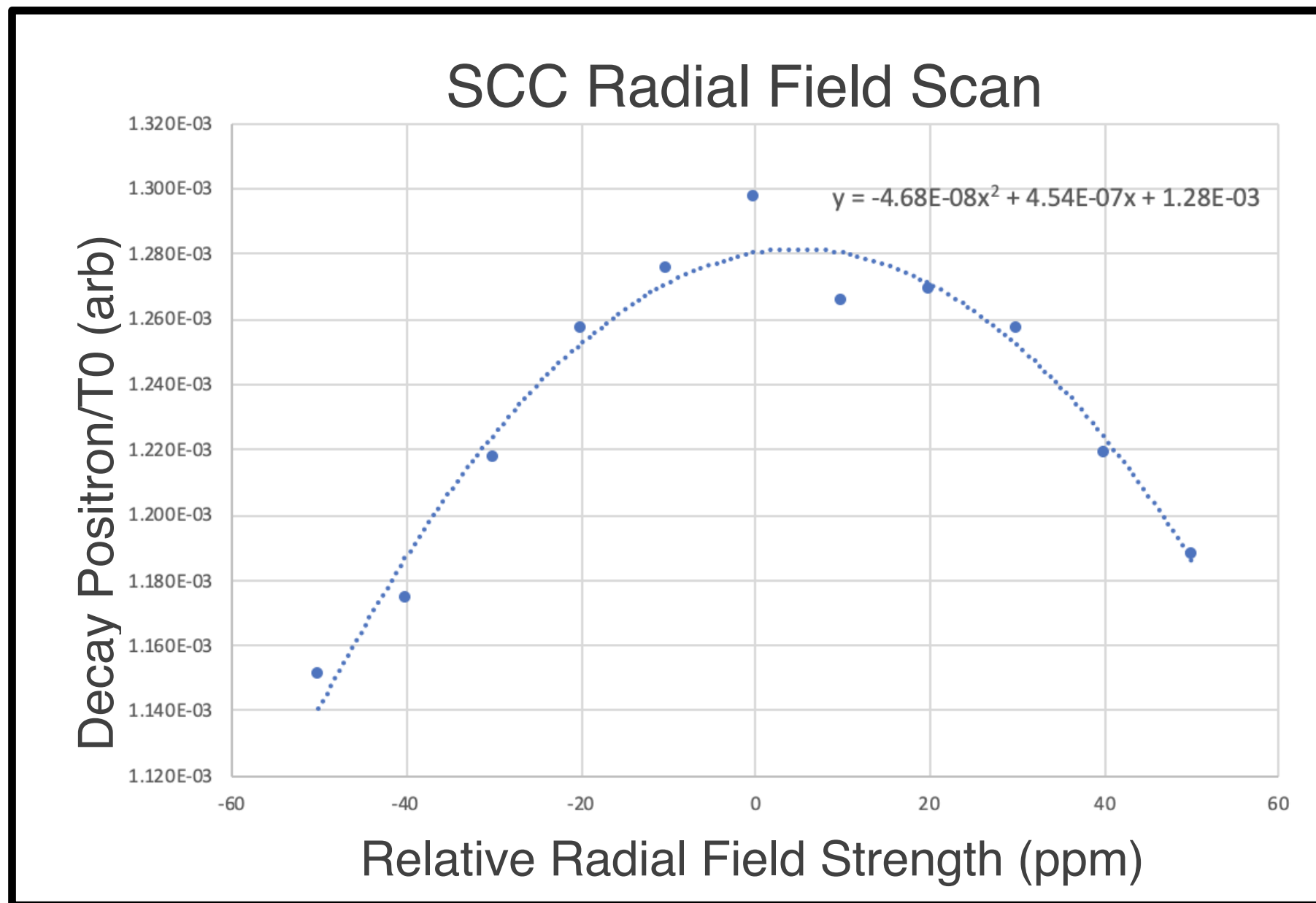
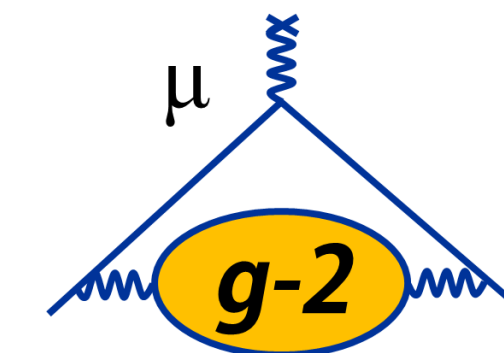
Highlights in Last Month

- **Nov 15:** First beam arrives
 - Initial timing scans with kicker system to align with beam bunches
- **Nov 16–20:** Checking on various metrics to confirm optimal settings
 - Beam injection: M4/M5 final focus, inflector settings
 - Beam dynamics: Beam position, CBO, muon losses
- **Nov 23:** 2nd round of kicker timing scans to confirm parameters

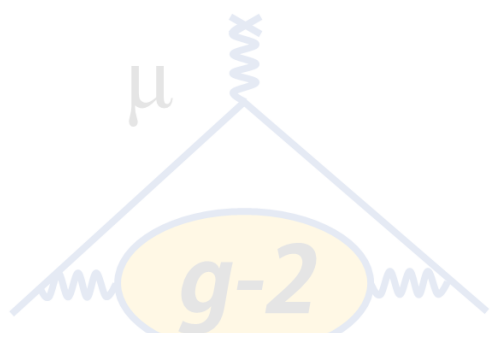


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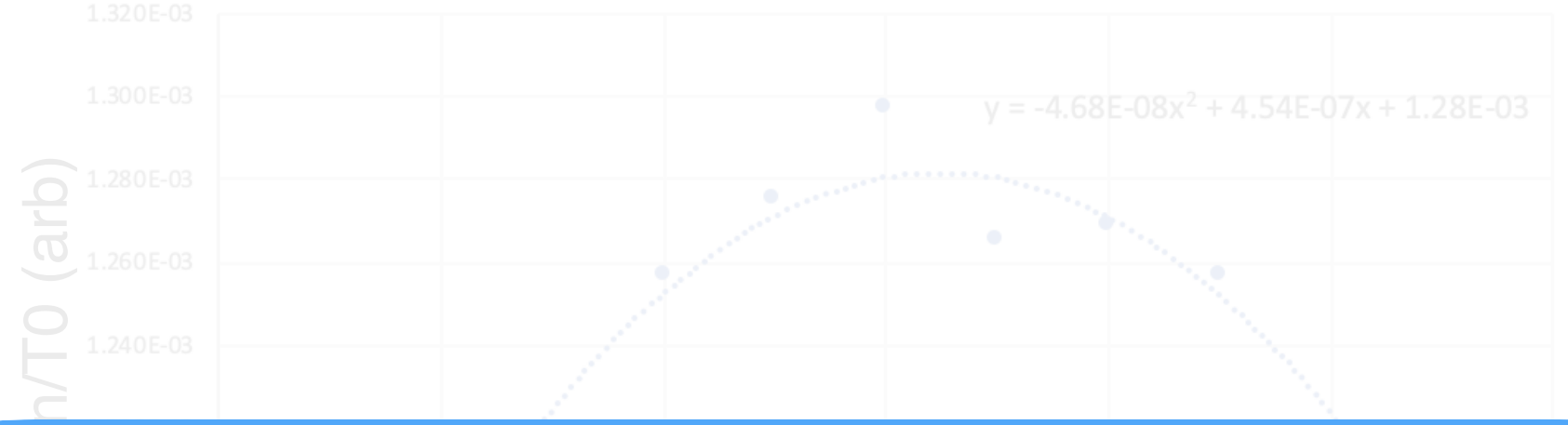
Highlights in Last Month



Highlights in Last Month



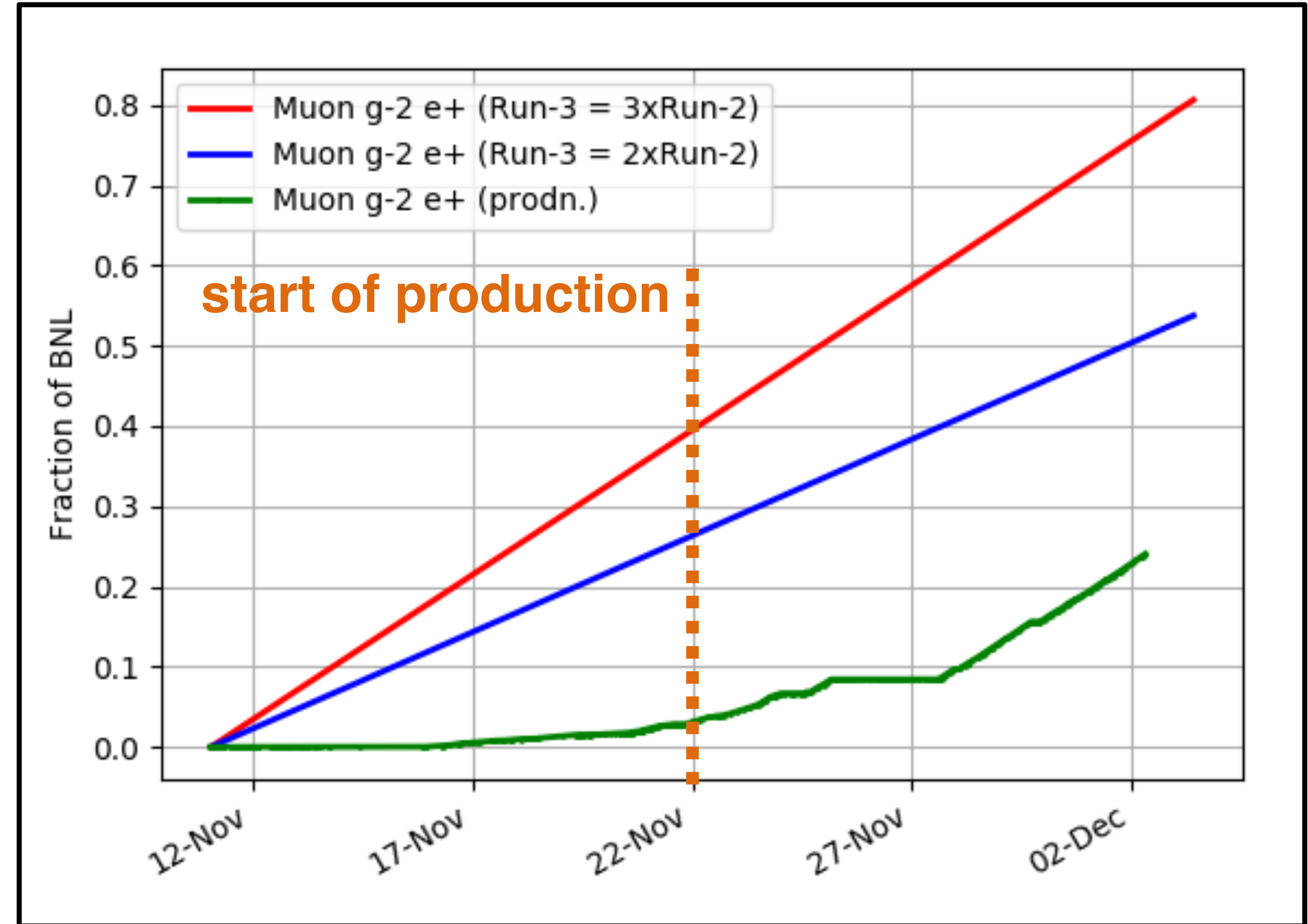
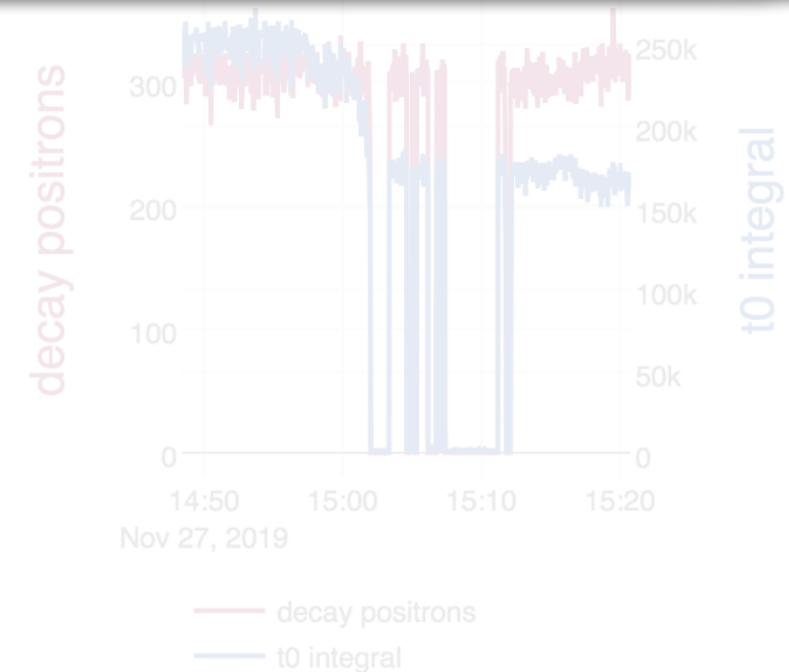
SCC Radial Field Scan



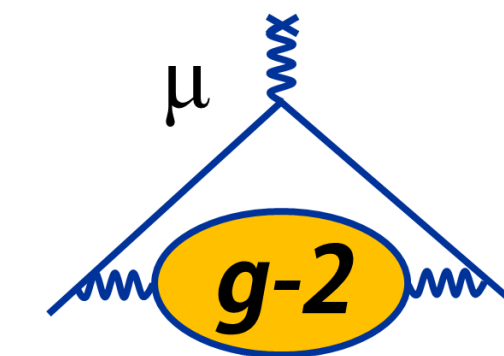
- All systems performing to specifications, key metrics consistent with Run 2
- Taking production data



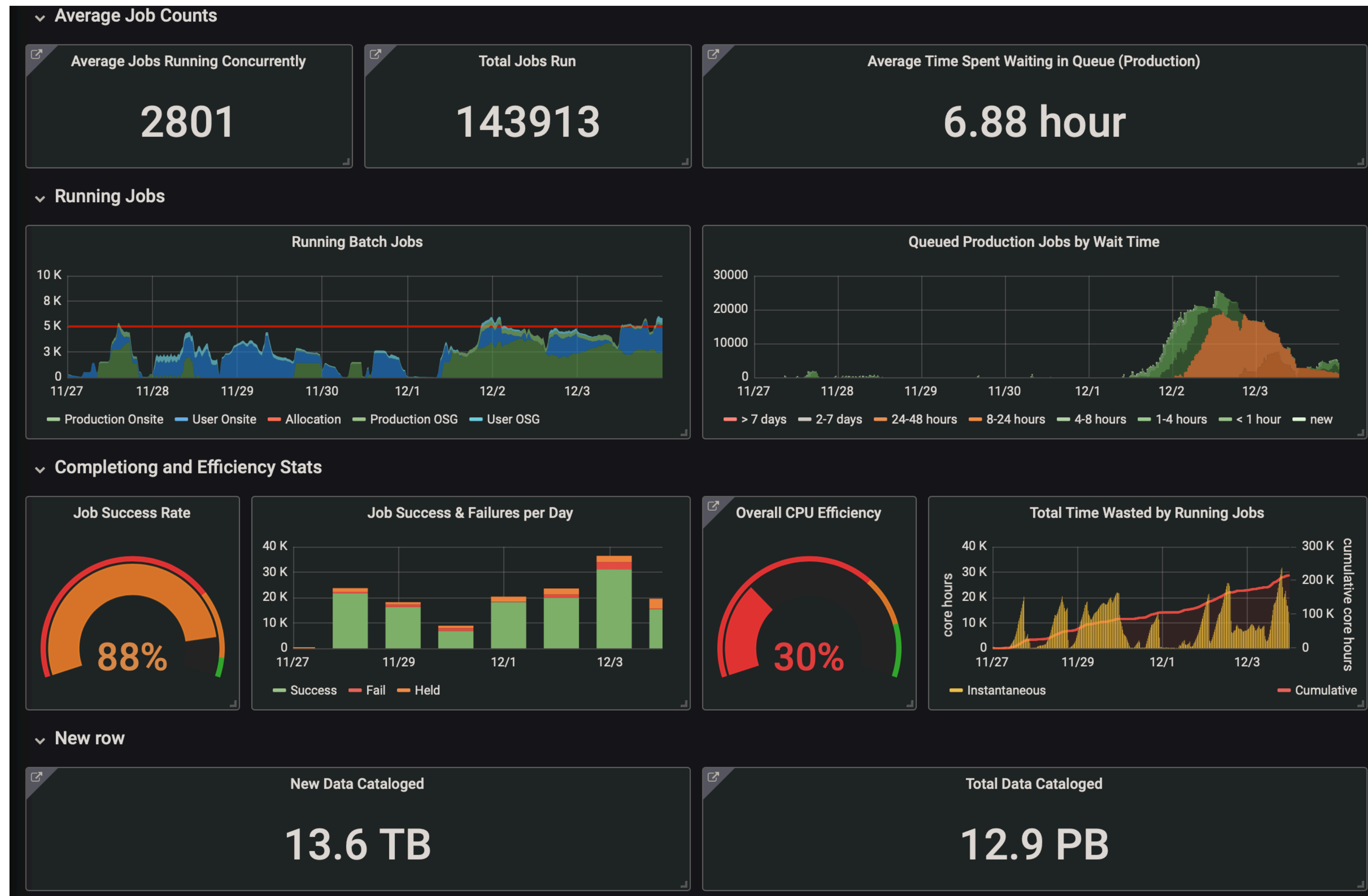
Insertion of DR collimators to reduce beam flash



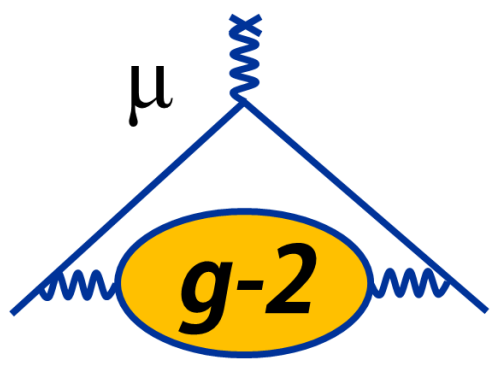
Computing Status



- Job success rate ~ 88%
- Low CPU efficiency
 - Just restarting production, need to optimize
 - Ticket submitted to SLAM for related concerns



Looking Ahead



- Folding in systematic runs important for Run 1 analysis
 - Beam time allocation: $> 80\%$ production, $\sim 10\text{--}20\%$ systematics
- Taking systematic runs from Wed–Fri this week
 - Replicating Run 1 operating conditions, selecting different momentum slices of beam
- Planning 1 week of systematic studies (no beam)
 - Quad/Field interference studies
 - Kicker magnetometer measurements
 - Start date \sim Dec 16