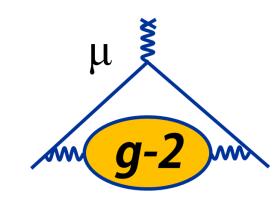




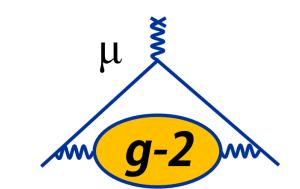


David Flay, Operations Manager Proton PMG 3 October 2019





Shutdown Highlights



Hall

- Completed installation of hall cooling system
- Stabilize magnet temperature => suppress diurnal field variations

Cryo

- 40-K and 80-K warmups successfully conducted (for cryo insulating vacuum purity)
- Magnet cooled back down

Kickers

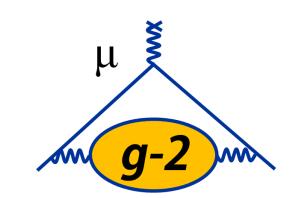
- Upgraded vacuum feedthrough for K2
- New motors installed to improve castor oil flow regulation in blumleins
- Improvements to magnetometer system for second round of measurements
- Successfully operated system at Run-2 settings after upgrades

Quads

- Expanded RF pulsing capabilities to short plates
- Upgraded electronics controls system
- Ramped to Run-2 settings after upgrades



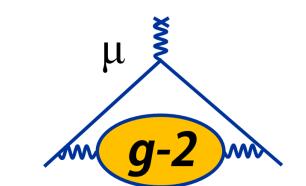
Run 3 Commissioning Schedule (Before Beam)



System	9/23-9/29	9/30-	-10/6	10/7–10/13		10/14–10/21
Controls	Finish hall cooling installation	today				
Cryo	CTCR testing	(annual)	mad	net		
Magnet	Quench protection test		to full			
Inflector			Quench protection test	ver		ready
Kicker	Castor oil motor installation	Ramp to run-2 settings	netometer installation, studies	Quad/Kicker interference		bean
Quads	Install RF on short plates			studies		
Field				Field studies w/Quads	Shimming (wedges)	Field maps (shimming confirmation)
Laser						Double-pulse studies



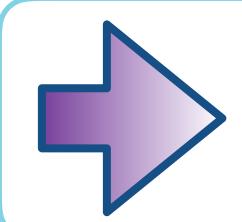
Run 3 Commissioning Schedule (With Beam)



 We also have a number of items to accomplish before we start production, spread across 2 weeks

Week 1

- Trigger timing updates (Kickers, Quads)
- Scan Inflector current (with IBMS3 inserted in beam path)
- Active field shimming (Surface Coils)
- Vertically center the beam (radial field generated by Surface Coils)
- Trolley runs
- Laser studies
- Week 2: Production with Run-2 conditions



On pace to be ready for beam-related activities by **October 21**st No float in schedule; will continue towards major milestones

