

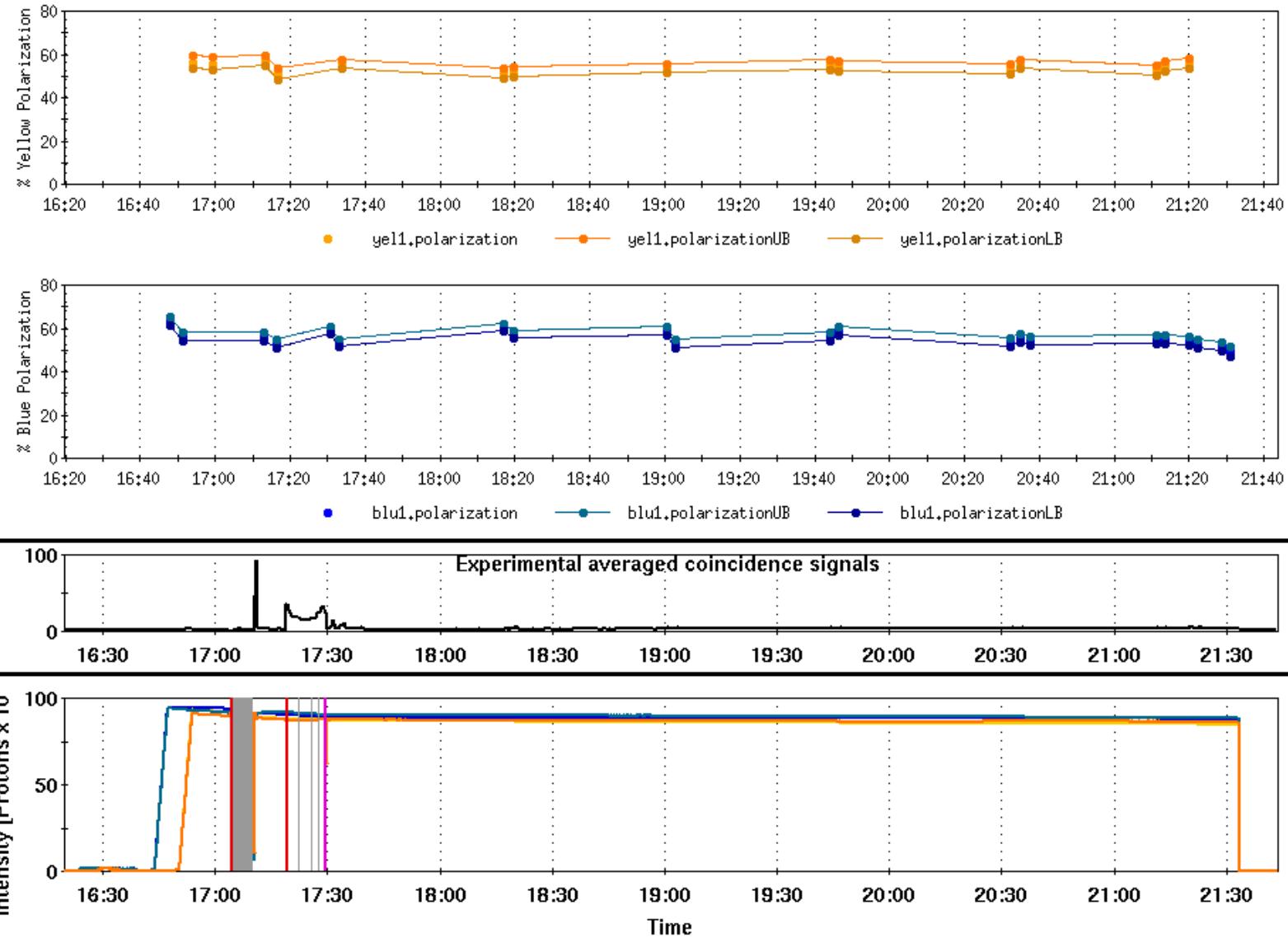
APEX Schedule April 12, 2012

Injection						
Spin flipper M. Bai, P. Oddo, ...						
pC polarimeter study Huang ...	Injection impedance Montag	Ramp		Store	Store	
		Beam-beam Study Simon, Yun, ...				
8am	10am	11am	2pm	Off momentum beta-beat Luo, White, Bai	Polarization Lifetime without collisions: <ul style="list-style-type: none"> Blue beam sitting at $Q_y = 0.6875$ Yellow beam sitting at $Q_y = 0.68$ measure polarization every 45 mins Jet measurement Team 	Measure pp IBS: Team
			2:30pm			7:30pm
						8pm

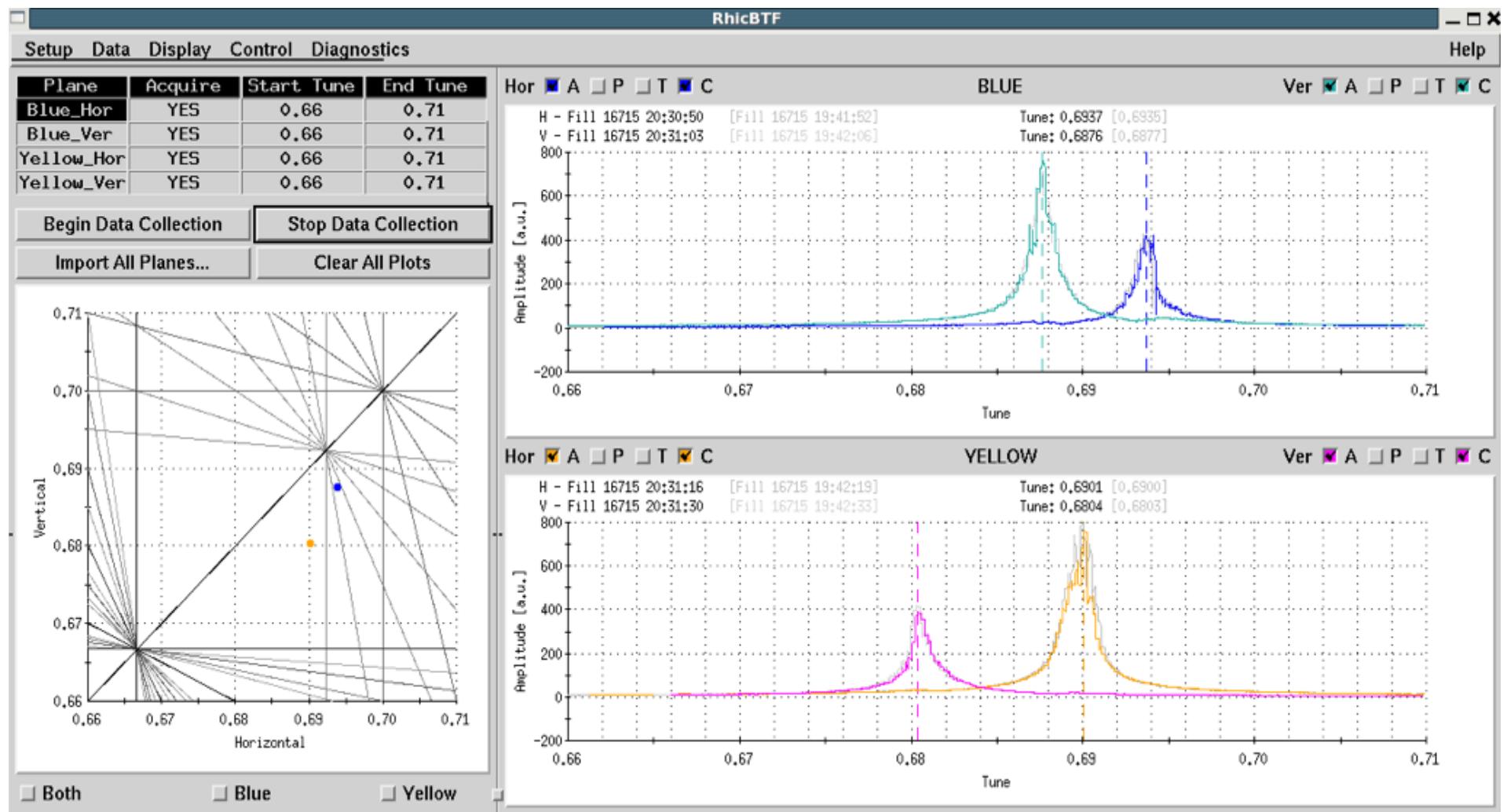
Polarization Lifetime

- 56x56 non-collision fill
- With all rotators on
- Blue vertical tune set to 0.6875, 11/16 snake resonance
- Yellow vertical tune set to 0.68, no resonance
- At the end, ie last 20 mins, moved Blue vertical tune to 0.7, 7/10 snake resonance

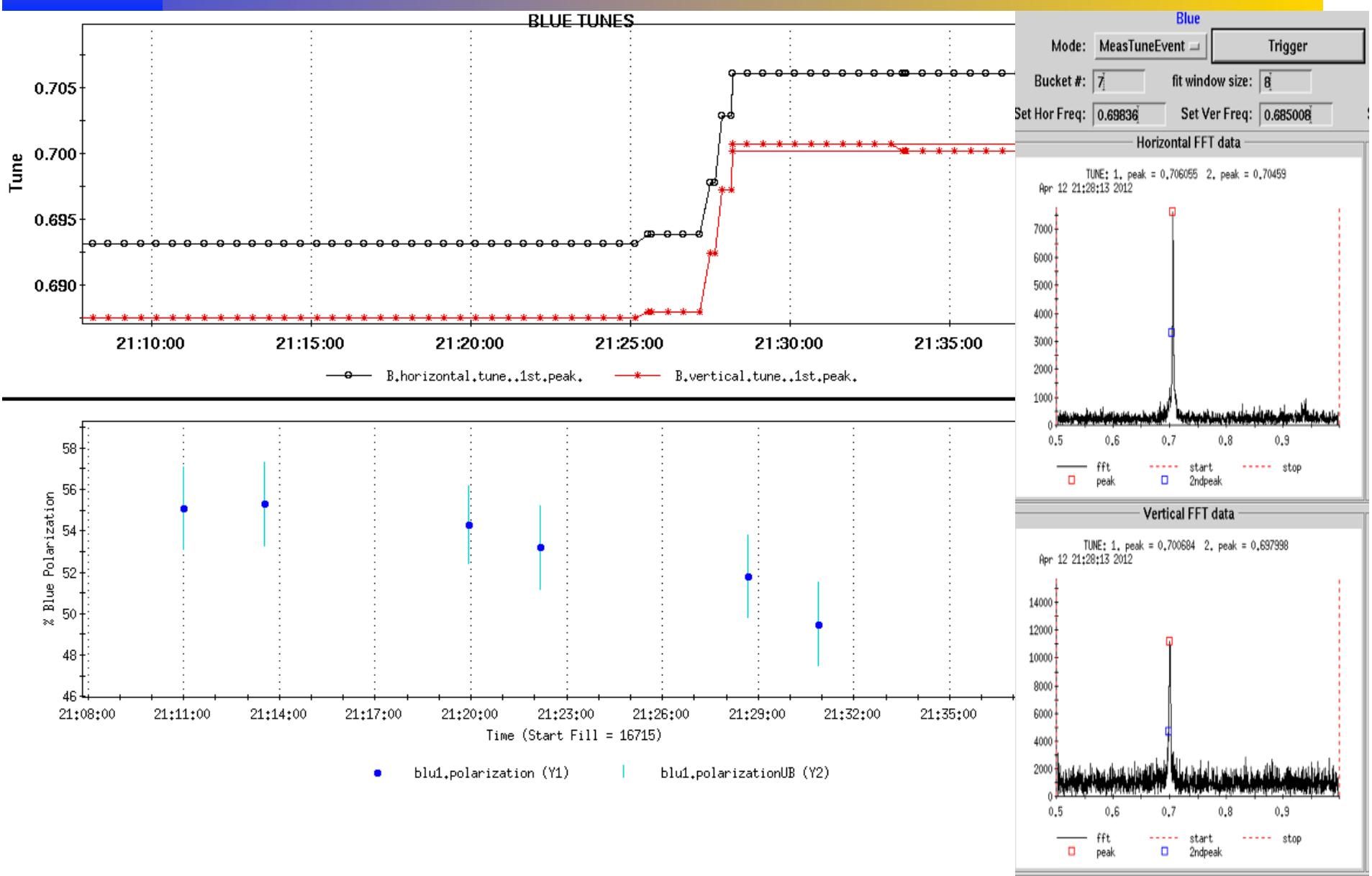
Polarization Lifetime



BTF during Store



Effect of 7/10 Resonance

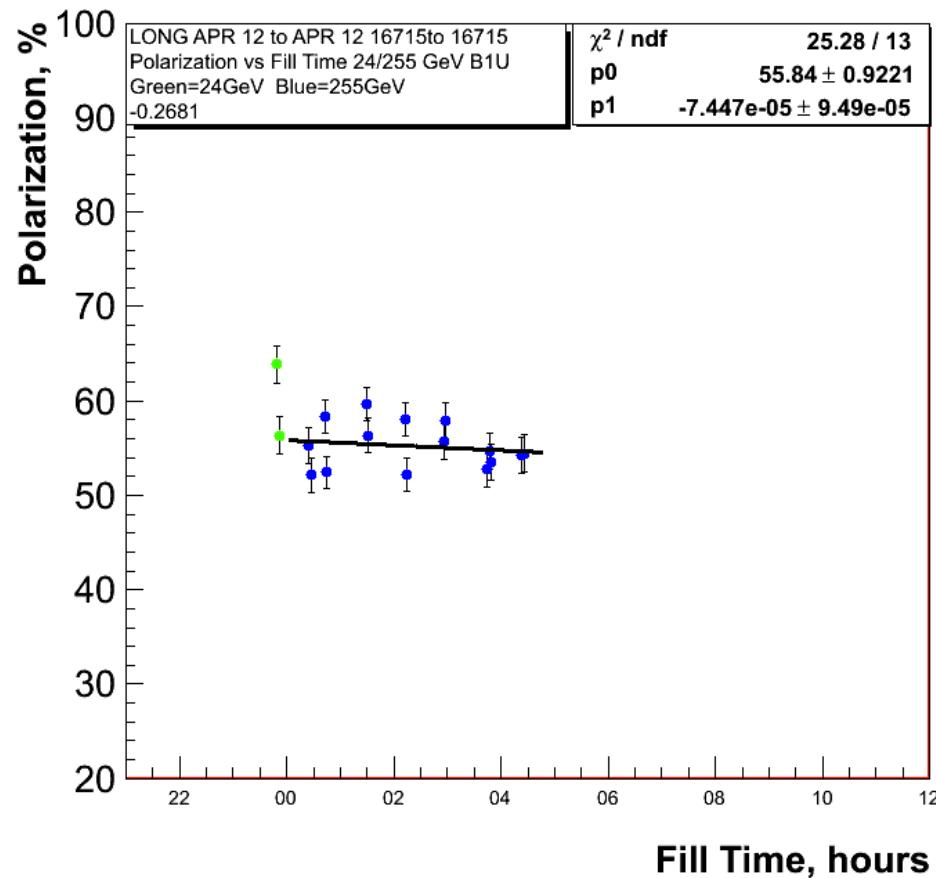
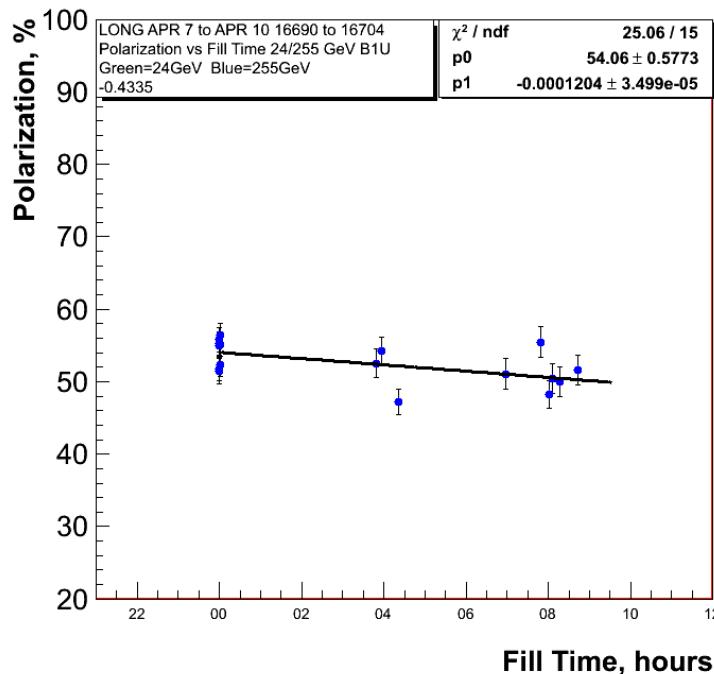


APEX

RUN-12

Preliminary Analysis from Polarimeter Group

From normal physics store



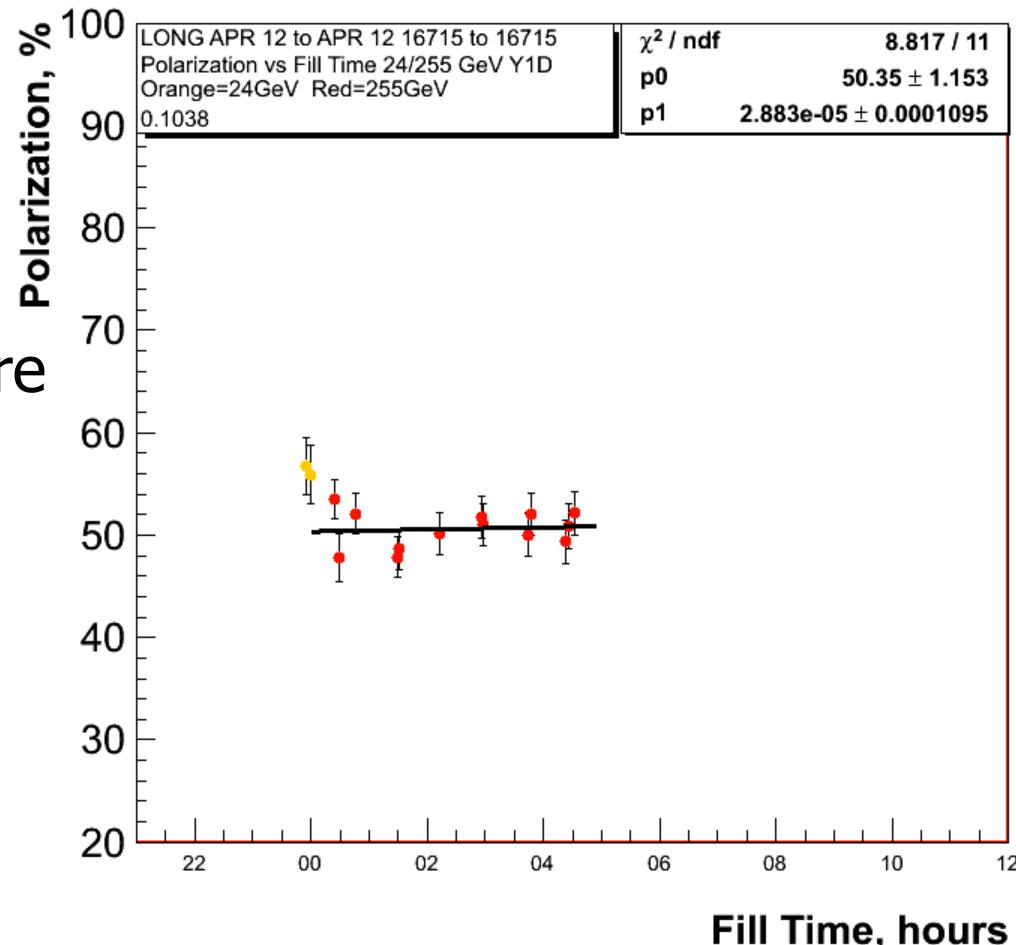
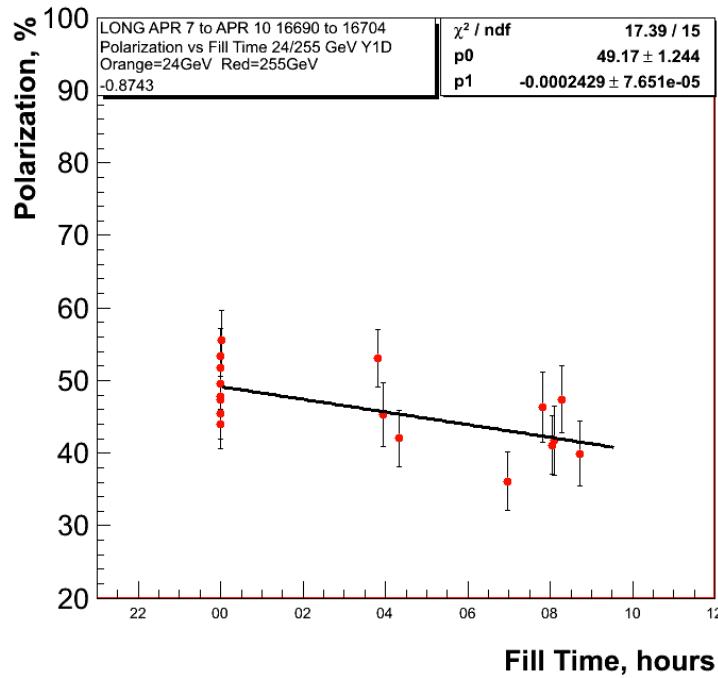
Plots are produced by Anders, Elke, etc.

APEX

RUN-12

Preliminary Analysis from Polarimeter Group

From normal physics store



Plots are produced by Anders, Elke, etc.

Preliminary Conclusions

- 7/10 snake resonance is pretty visible at store, as expected
- 11/16 snake resonance is not the dominant source of polarization lifetime for physics store
- Data indicates the polarization lifetime is affected by beam-beam.

APEX Schedule April 18-19, 2012

End of Physics store	Injection, (MD)	store	Injection	Injection
Beam-beam Study Simon, Yun, ...	Bunch-by -bunch damper RF	Optics correction Bai, White, G RD, Joe, ...	Spin tunemeter M. Bai, P. Oddo, ...	Jet injection measurement Yousef,
12:30pm	1pm	3pm	5pm	8pm
				8am