

# RHIC status

*May. 31, 2016*

**BROOKHAVEN**  
NATIONAL LABORATORY

*a passion for discovery*



U.S. DEPARTMENT OF  
**ENERGY**

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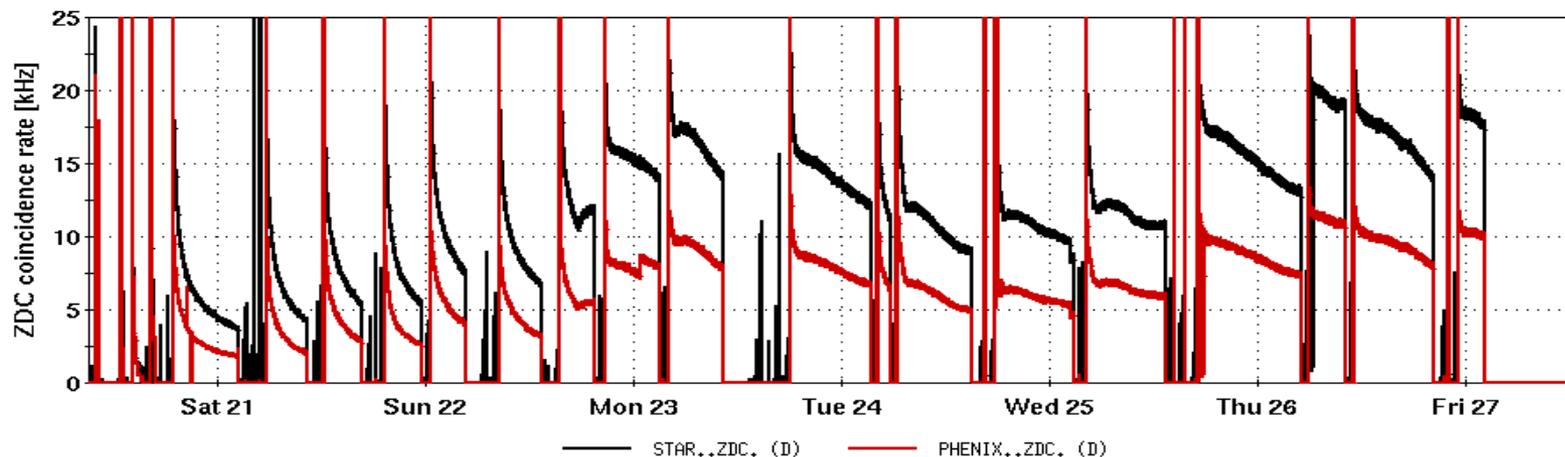
# RHIC status

- The 62 GeV dAu program was completed on Friday, May 27.
- Beam development for switching to 19.6 GeV dAu started 10 pm on Friday.
- Physics data taking was started Saturday night at STAR. PHENIX detector came back online Sunday.
- RHIC has been delivering stores regularly ever since.

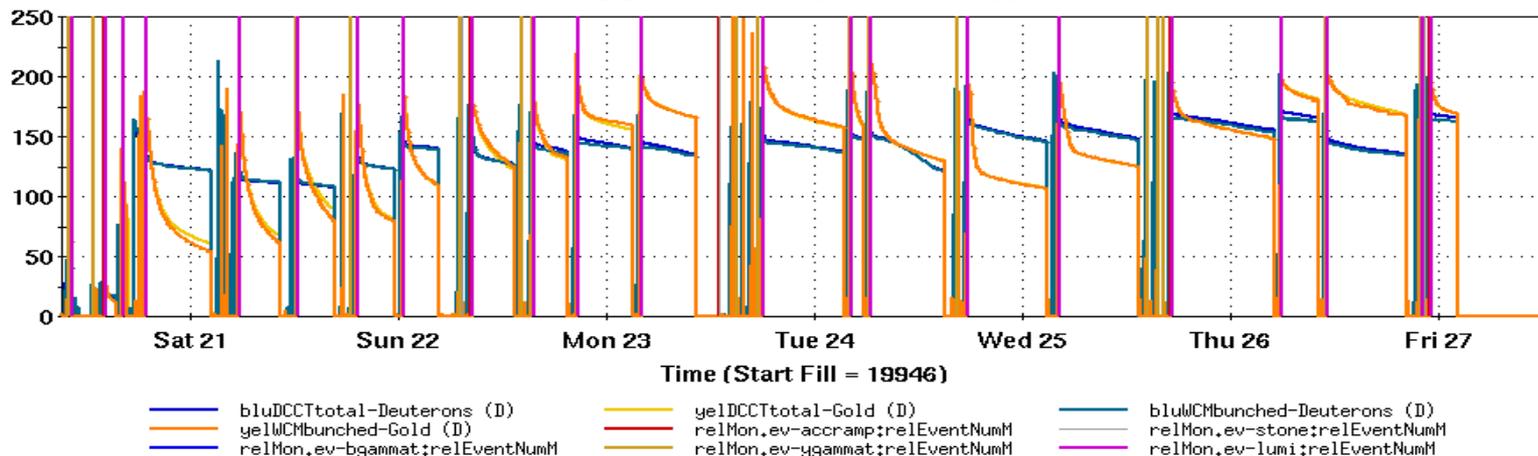
# 62 GeV stores

RHIC/BeamIons.dAu.logreq 05/20/2016 09:10 - 05/27 12:37

File Window Markers Analysis



RHIC - DCCT total beam & WCM bunched beam

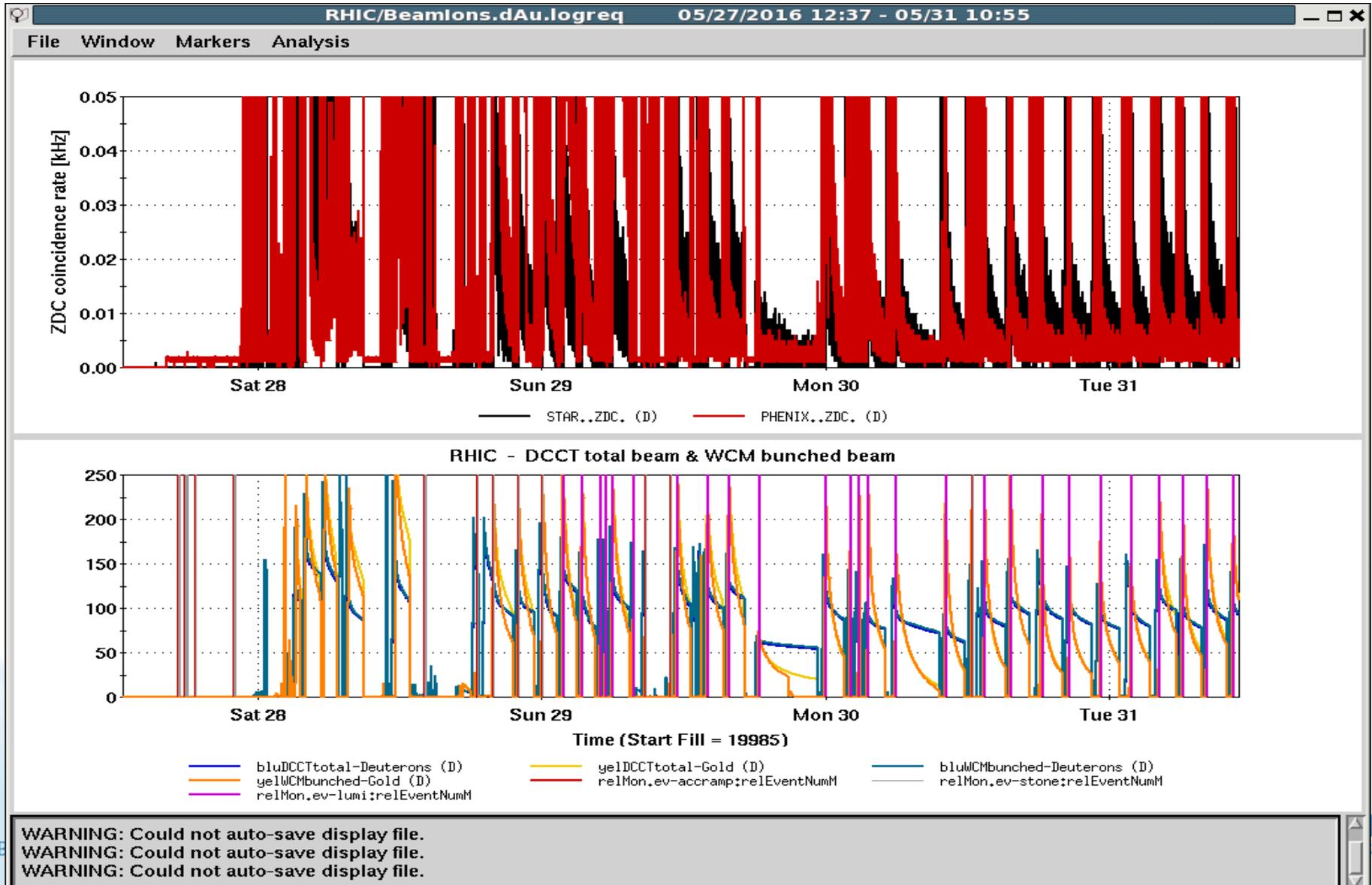


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# Notes on 62 GeV

- SC cooling made life much better, long stores with very good luminosity lifetime.
- Turn-on time of SC cooling was crucial. Delay of ramping storage cavity voltage and fine tuning of collimators enabled us to turn it on right after collision.
- Instability was suppressed by large chromaticity at injection.

# 19.6 GeV stores



# Notes on 19.6GeV

- Before Saturday afternoon, beams were injected into collision, losing too much blue beam while injecting yellow. We switched to fill with separation and then collide, lose ramps sometimes mostly due to coherence.
- Losing too much blue beam while filling blue, yellow lifetime is worse than it was on Saturday.
- Kicker (G10) timing fluctuated while filling.
- Collimator setting at injection and store were revisited.