

# RHIC status

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Time meeting

08/25/2020

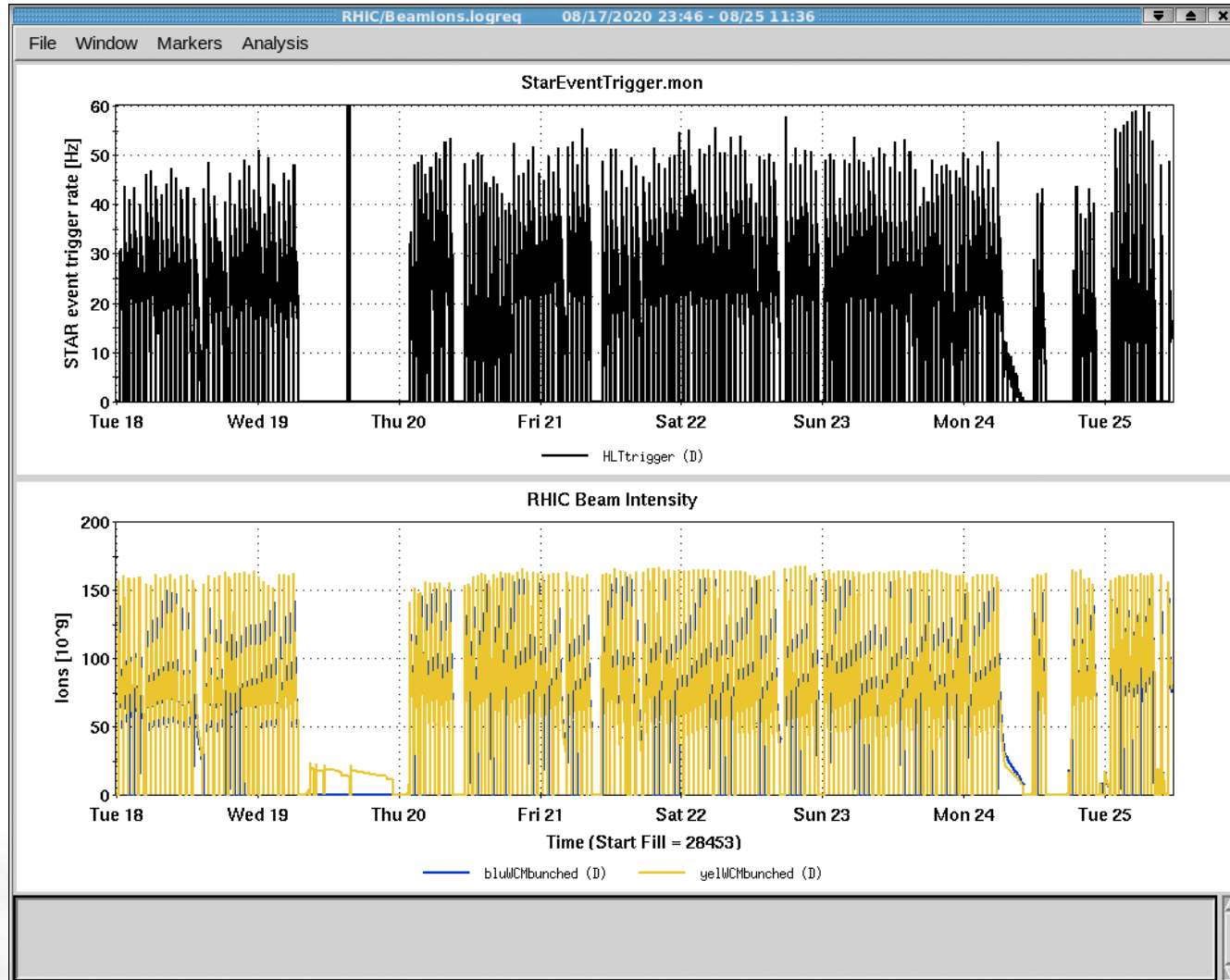
**BROOKHAVEN**  
NATIONAL LABORATORY



# RHIC status overview

- Smooth RHIC operation over last week with good up-time, stable intensity input from injectors.
- LEReC trips due to laser lock issue and RF cavities happened more frequent than usual. LEReC will be off to recondition the SRF cavity.
- CeC commissioning parasitic to RHIC physics program proceeded with no issues. As usual the team took 16 hrs dedicated time for beam study.

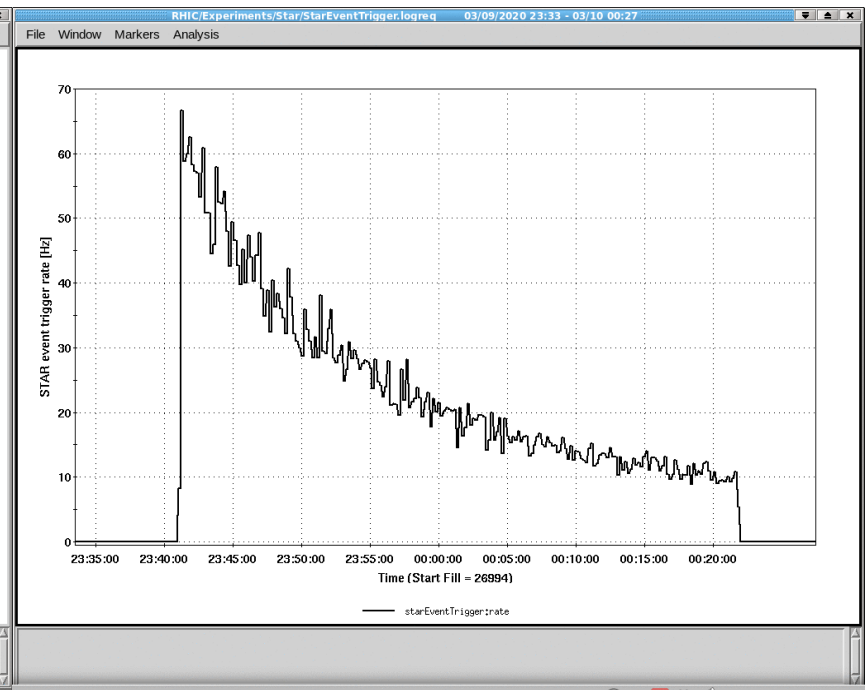
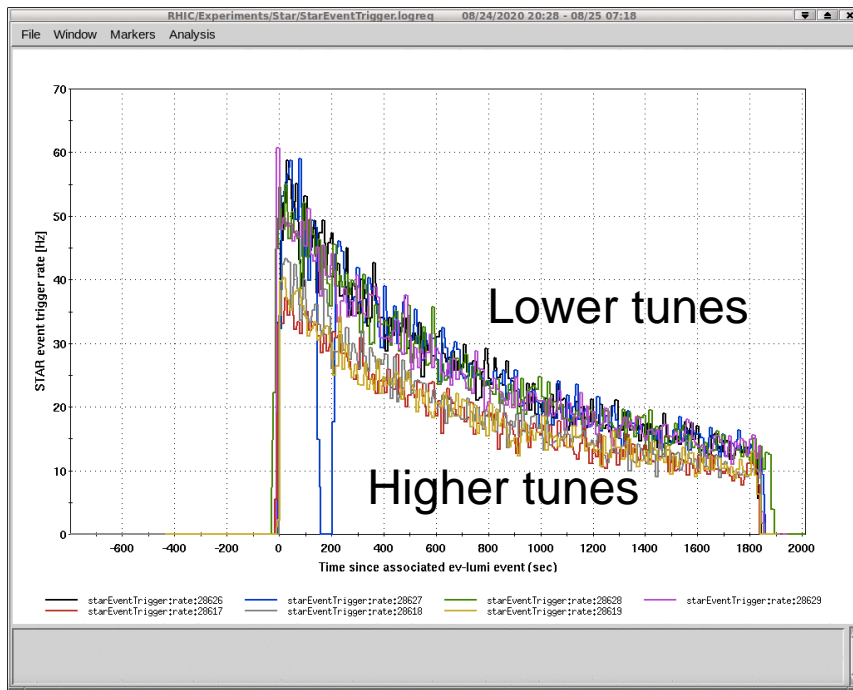
# RHIC stores of last week



# Switching to lower tunes when LEReC is offline

- With the lower working point (0.12), the single beam lifetime was better, the beam lifetime in collision is better in blue and similar in yellow. The store with new working point without cooling see higher initial collision rate.
- The performance with lower working point is expected to be improved with higher beam intensity.

# Performance at lower tunes



Now

March 9th

# Plan for the week

- The end date for the 4.6 GeV program is Sep. 1<sup>st</sup>.
- No maintenance day scheduled. CeC will take 16 hrs of dedicated time on Thursday.
- Injector setup for 3.85 GeV gold from EBIS. Injector setup for 3.85 GeV gold from Tandem on 28 and 31 (Fri, Mon).
- Sep. 14 is the end of beam operation date of Run-20.
- To understand the “mismatch” problem we had a few weeks ago, the initial AGS stripping foil position will be requested to be put back near the end of the physics program (Aug. 31, Mon), and a few stores will be run with horizontal chrom at -14.