

# Run 20 RHIC Machine/Experiments Meeting

*September 8, 2020*

## Agenda:

- General discussion of Run 20 status, progress, and end - W. Christie
- RHIC Status - C. Liu
- STAR Status - JH Lee
- CeC Status - V. Litvinenko
- All Other Business (AOB)

### **BLUEJEANS CONNECTION INFO**

Meeting URL

[https://bluejeans.com/806756566?src=join\\_info](https://bluejeans.com/806756566?src=join_info)

Meeting ID: **806 756 566**

Want to dial in from a phone?

Dial one of the following numbers:

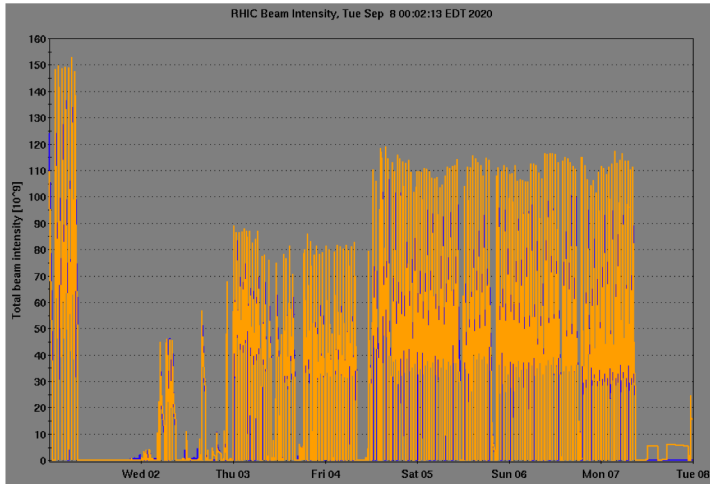
+1.408.419.1715 (United States(San Jose))

+1.408.915.6290 (United States(San Jose))

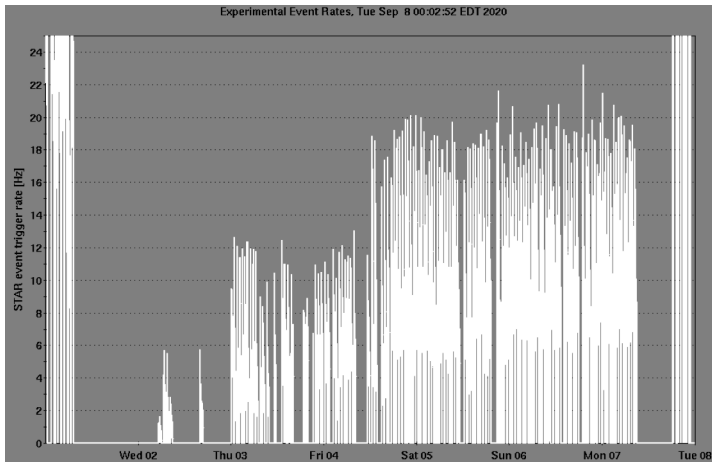
(see all numbers - <https://www.bluejeans.com/premium-numbers>)

Enter the meeting ID and passcode followed by #

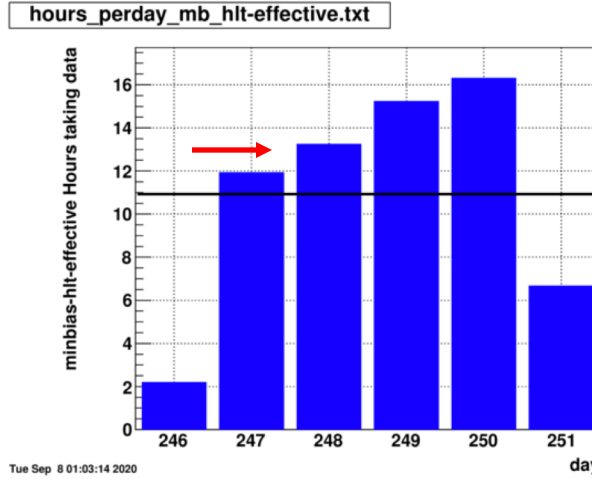
# Some Performance Plots from 7.7 GeV Au –Au Commissioning



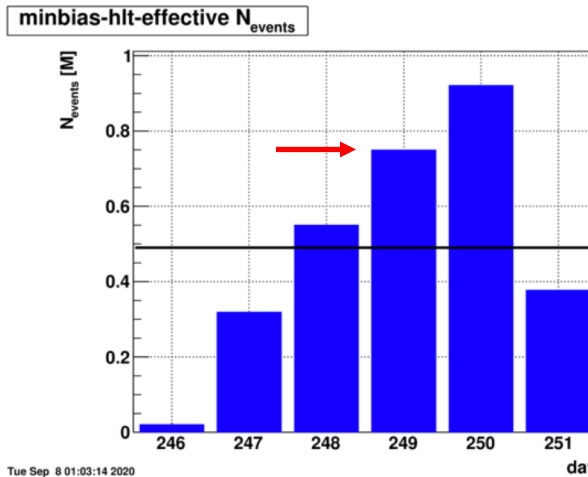
RHIC Store Intensities



STAR "Good" Event rates

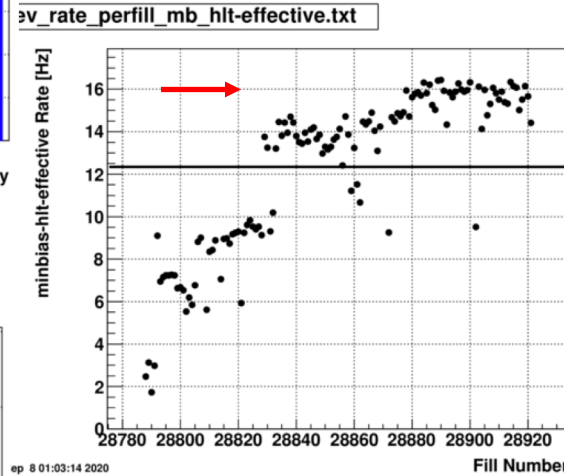


STAR DAQ hrs/day



"Good" Evts/day

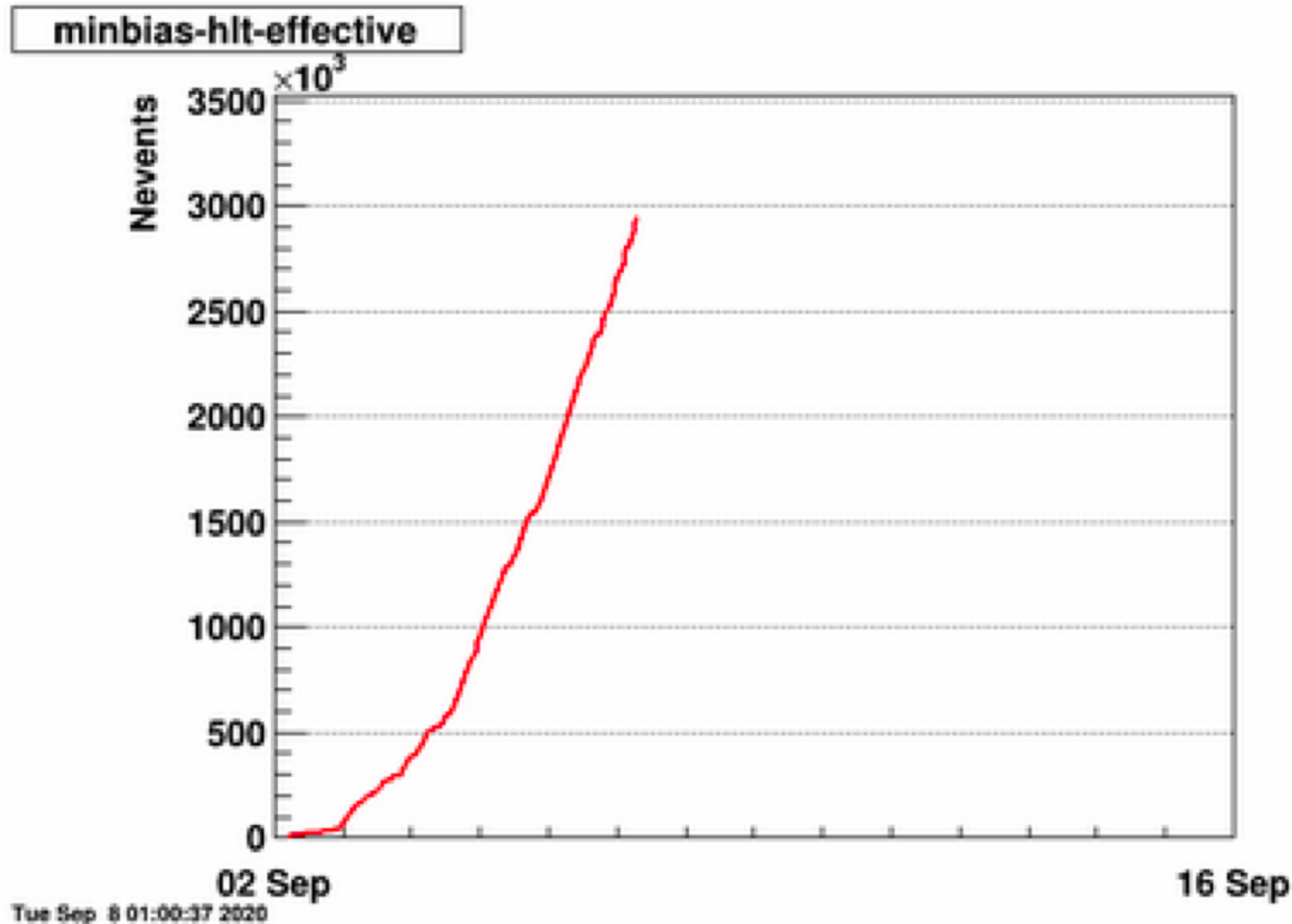
Black # = Average since restart  
Red # = Average for past week



Store averaged  
"good" evt rates

Commissioning 7.7 GeV Collisions after 40 weeks of Cryo Ops on a Holiday weekend!

## 7.7 GeV Accumulated "good" events



If next year we can maintain an average of **13 hrs/day** DAQ time, and a store averaged rate of **16 Hz**, we'd collect: 750 kevts/day, 5.2 Mevts/wk  
-> **100 Mevts/(5.2 Mevts/wk) = 19.2 weeks**

The Goal of 100 M "good" 7.7 GeV evts in 2021 looks to be within reach!



# Summary

- A very successful 2020 RHIC run!
- 11.5 GeV Au on Au data set goal completely achieved (235 M/230 M evt goal)
- 9.2 GeV Au on Au data set goal completely achieved (161.8 M/160 M evt goal)
- All Fxted target data set goals completely achieved
- LEReC Commissioning for 7.7 GeV demonstrated very good performance
- CeC Experiment still has time left for next five days, and have made good progress
- **WOW!**

This amazing achievement by all involved deserves some sort of Celebration!  
The usual End of Run party isn't COVID safety compliant, so need something else.  
STAR is encouraged to collect the usual funds for an End of Run party, with the hope that we figure out a creative way to use it for a celebration.

Department Management has tasked our Scheduling Physicist, Robert Pak, with the task of figuring out how we might execute this celebration. He can of course speak for himself, but my guess is that he will welcome any creative ideas people might have to offer.