# Low Energy RHIC electron Cooling (LEReC)

RHIC Time Meeting February 4, 2020



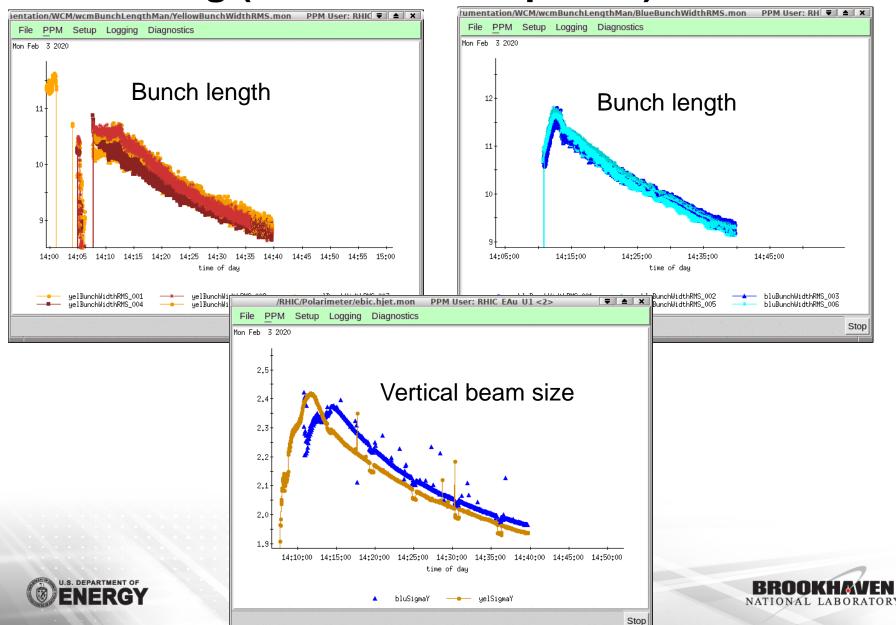


### LEReC progress/updates for January 28-February 3

- LEReC had three planned shifts during this period:
- Thursday, Jan. 30: was used for physics setup at 9.2GeV c.m.
- Friday, Jan. 31: technical problems with LEReC systems
- Monday, February 3: setup cooling with detectors on to see effect on luminosity



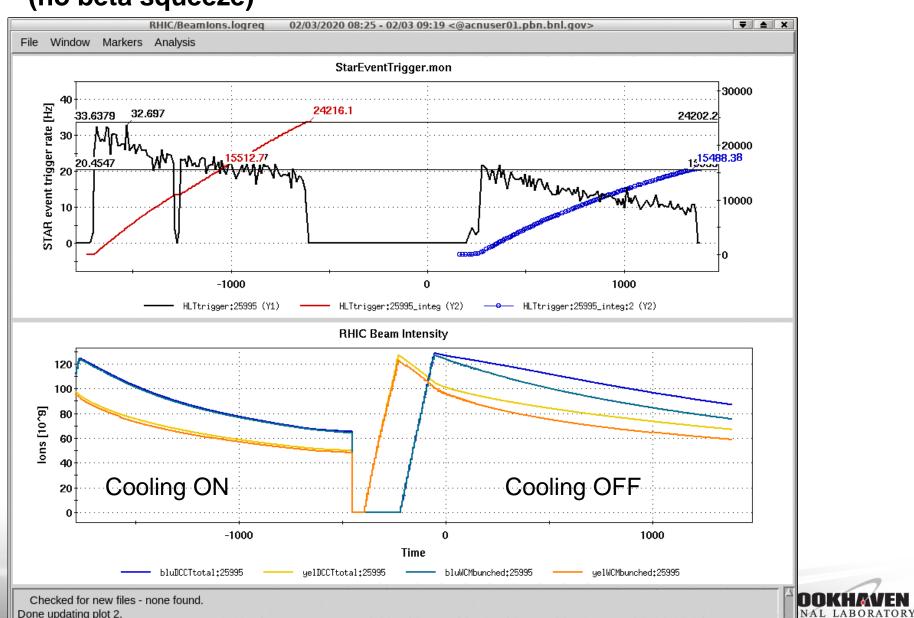
# 6D cooling (without beta squeeze)



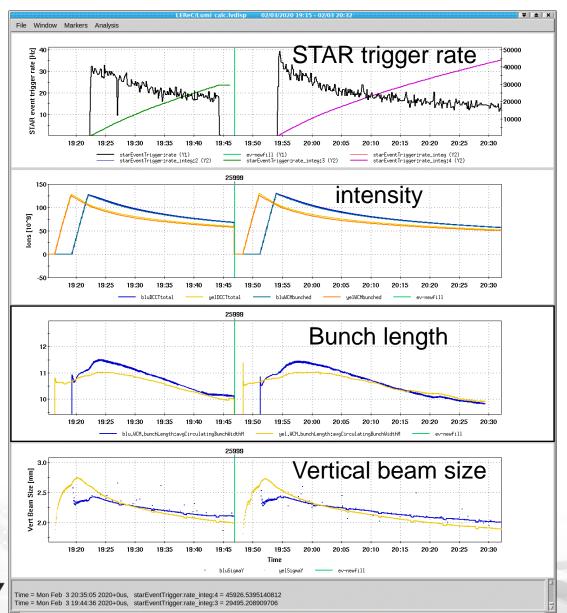
#### **Cooling with detectors ON** (no beta squeeze)

Done updating plot 2.

## Cooling/no cooling



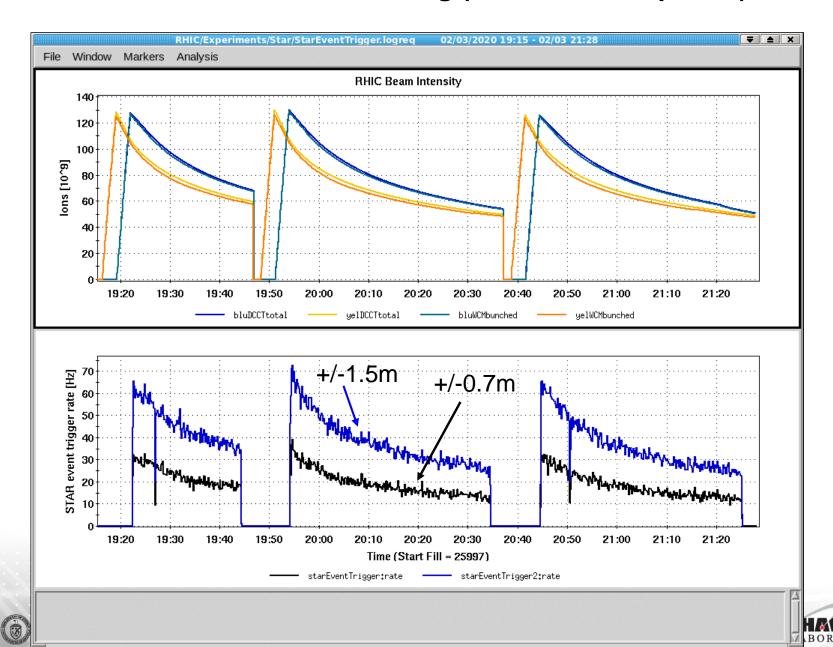
## Two stores with cooling





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#### Three baseline stores with cooling (without beta squeeze)



## LEReC status and plans

- RHIC was setup for collisions at 9.2GeV c.m. in STAR
- Put first store with cooling and detectors on to establish baseline

#### Plans:

- February 5-9: Baseline Physics run at 9.2 GeV c.m.
- Some optimization/studies (including beta squeeze) will be done during DAY shifts, while EVE and OWL shifts will be putting physics stores for statistics.



