

RHIC status

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Time meeting

08/04/2020

BROOKHAVEN
NATIONAL LABORATORY

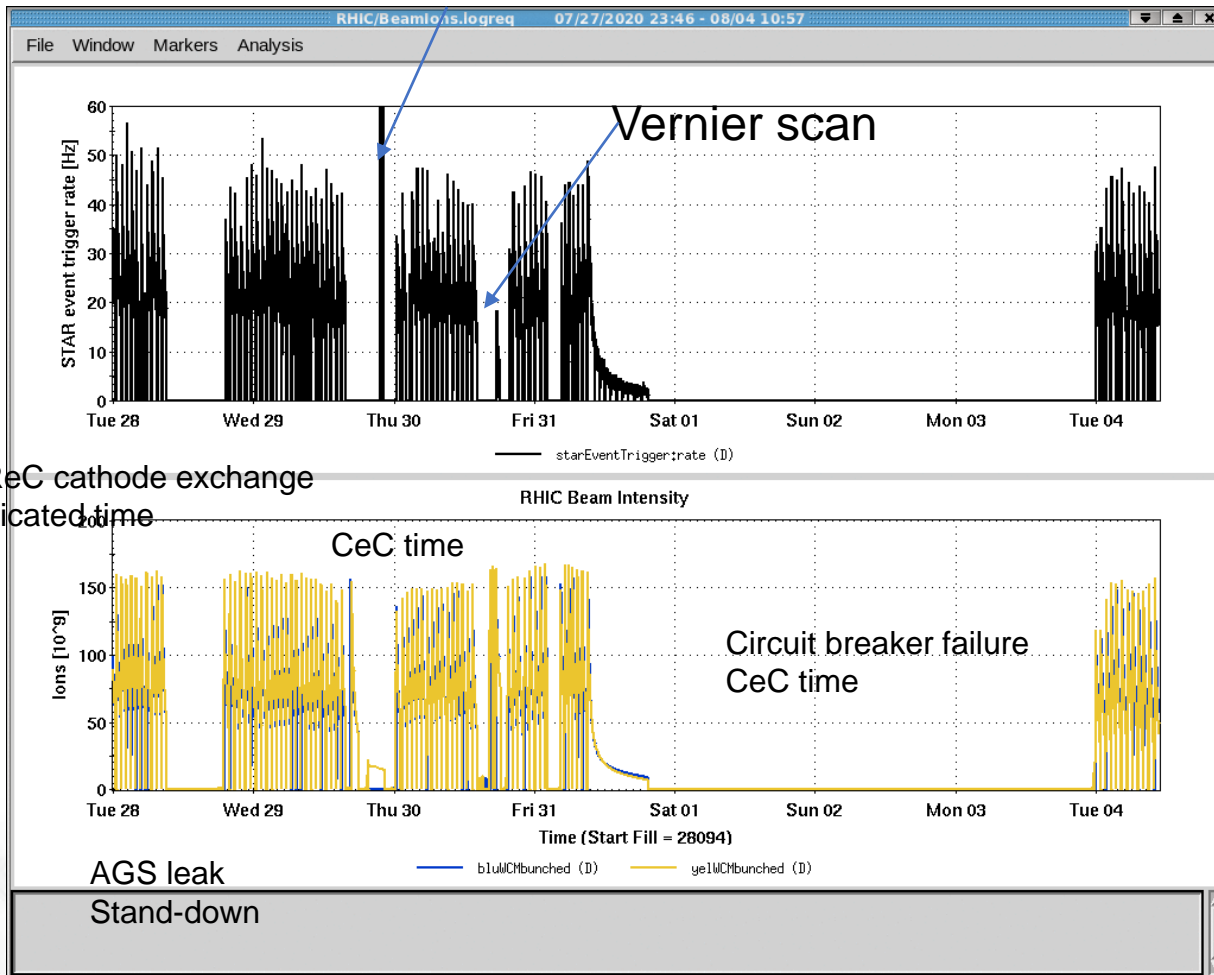


RHIC status overview

- RHIC has been providing robust physics stores with LEReC cooling over last week, however, with up-time strongly affected by weather and circuit breaker for booster main magnet ps failure.
- CeC beam commissioning made good use of the RHIC downtime over the weekend and demonstrated plasma cascade amplification!

RHIC stores of last week

Fixed target

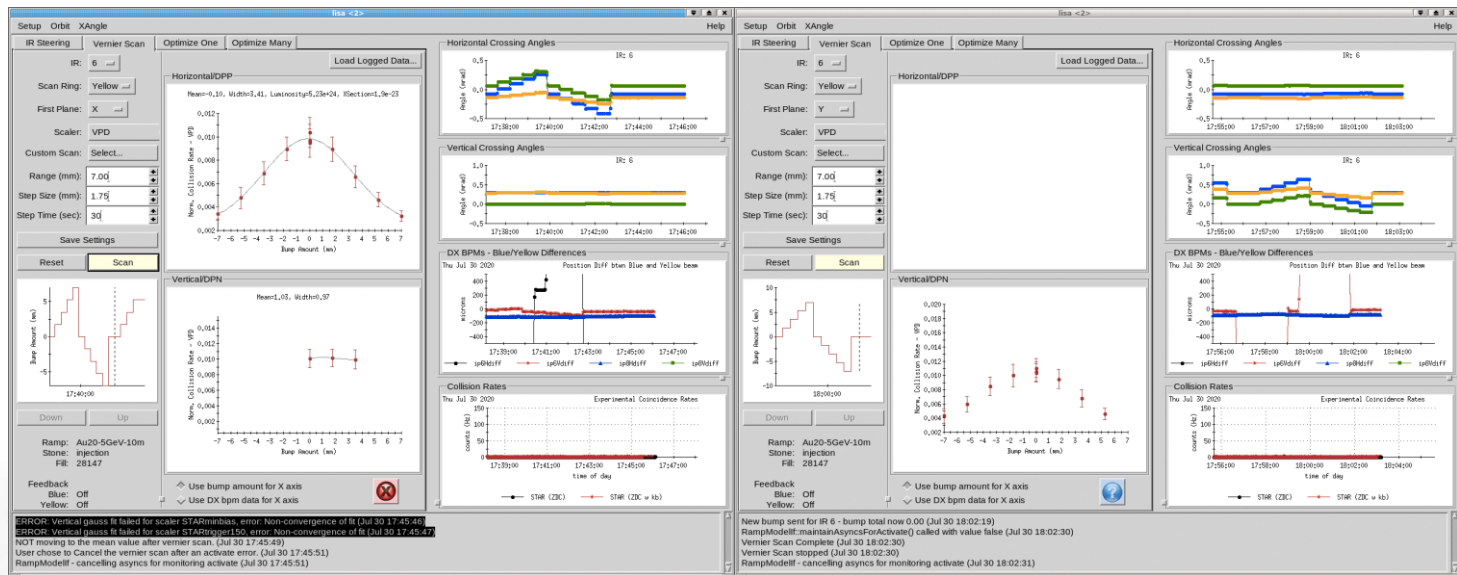


Booster circuit breakers failure

- Multiple fuses were blown up and circuit breakers tripped.
- The line crew inspected and hipotted all the cabling and switches between the Booster and the main transformer #7.
- Inspection of other terminations and circuit breakers were performed.
- Booster main magnet ps was rewired to transformer #8.
- The booster came back online Monday ~4pm.

Vernier scan

- Vernier scan was performed successfully by Angelika using a large beta star lattice.
- Ramp file: Au20-5GeV-10m, beta function at IP6 is 10 m.
- Without LEReC cooling because it won't work since the optics in cooling section was not designed for cooling.



Plan for the week

- CeC dedicated time for 16 hours starting from 8 am Thursday.
- LEReC cathode exchange Friday 8-10am.
- Parasitic tuning of injectors efficiency.
- Physics running at all other times.