

# 15 GeV Low Energy Run

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## RHIC status

- Providing back-to-back Physics stores
- Scheduled access for PHENIX on Wednesday (background counters, coolant leak,...)
- Siemens failure on Wednesday, switched over to Westinghouse. 24 h downtime
- Traced back root cause of "Yellow horizontal instability" to BeamSyncLink problem causing bad BPM readings, resulting in the 10 Hz orbit feedback slamming the beam into the wall. Keeping the 10 Hz feedback off during injection avoids this issue

- Tune scan confirms near-integer working point choice
- Orbit correction still not straightforward, likely related to near-integer working point and limited corrector resolution at low energy.
- Tested new algorithm (weighted SVD) this morning. STAR seemed unaffected, but PHENIX backgrounds increased

## Upcoming week

- Continue providing back-to-back Physics stores
- Slowly trying to ramp up intensities while watching vacuum and background rates
- Need to improve turnaround time between stores. Less frequent tune corrections (after a fixed number of stores instead of every store) might help
- Adjust gap cleaner
- Test STAR pre-fire protection bump