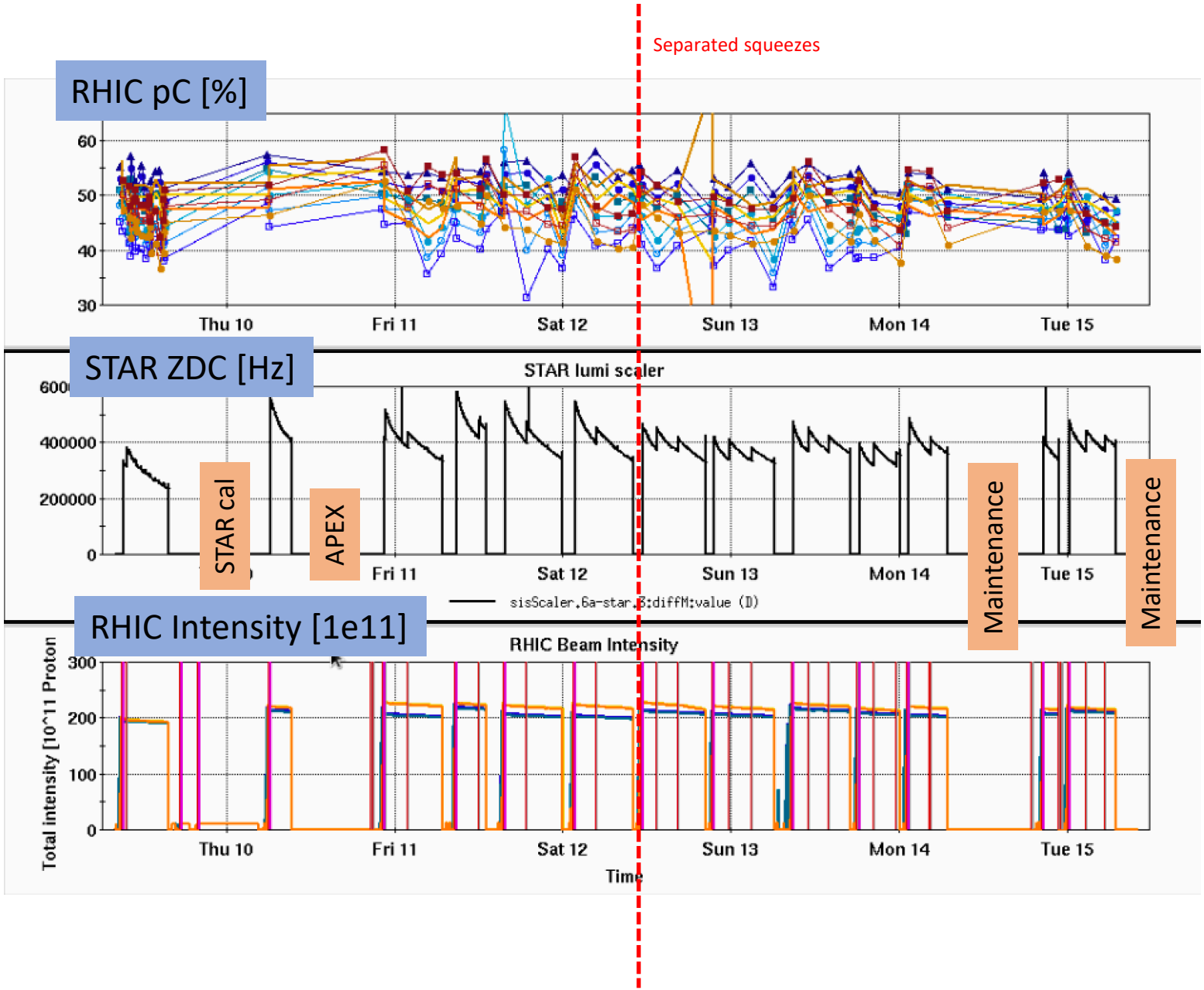
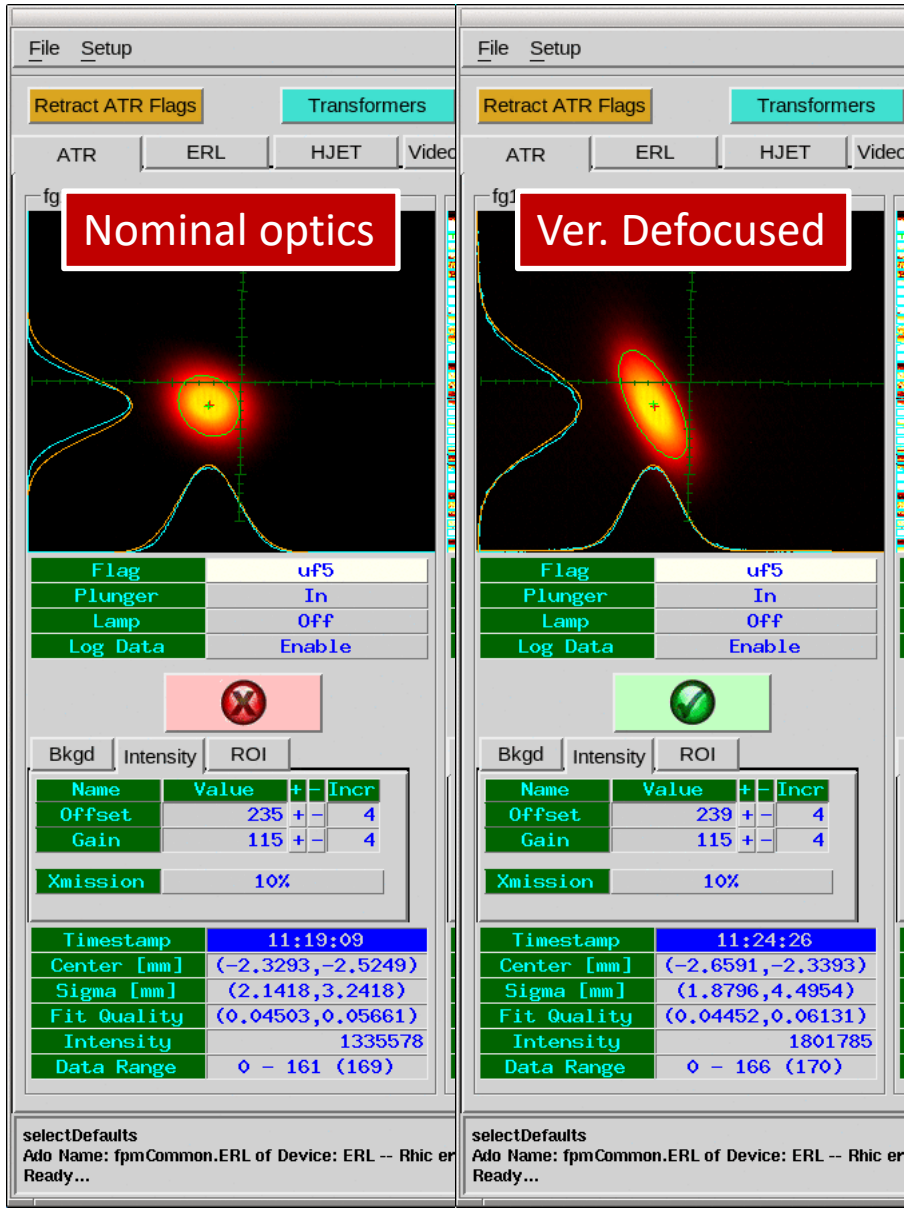
# RHIC Run 22 Run Status

2/15/2022, V. Schoefer

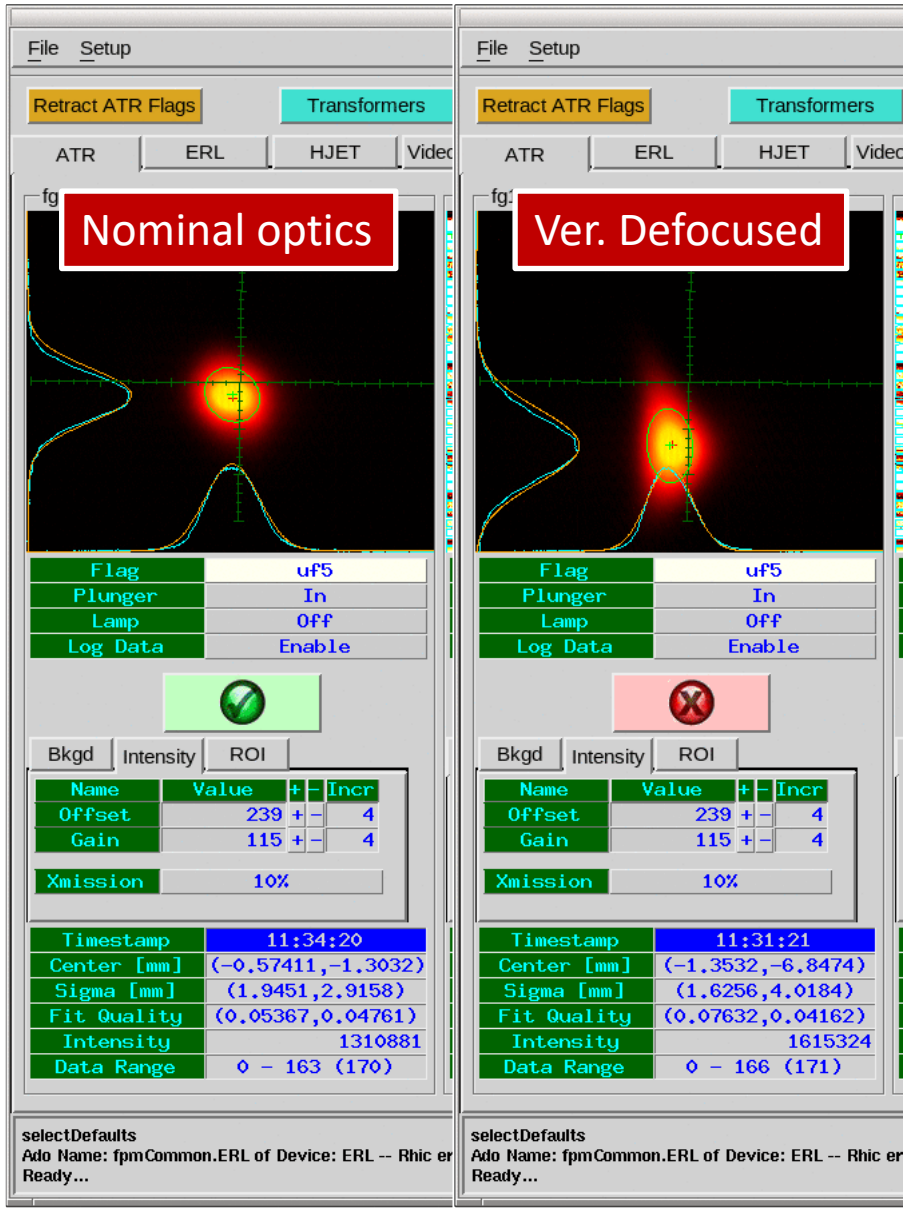
- AGS to RHIC transfer improved
  - Vertical orbit at extraction was causing coupling in the transfer via sextupole feed-down
- Peak lumi improved: high enough to delay first squeeze for leveling
- Polarization affected by stability of the Westinghouse
  - Current function during AGS acceleration changes, shifts resonance timing away from the tune jumps



## AGS Extraction Vertical sin9: 7 mm

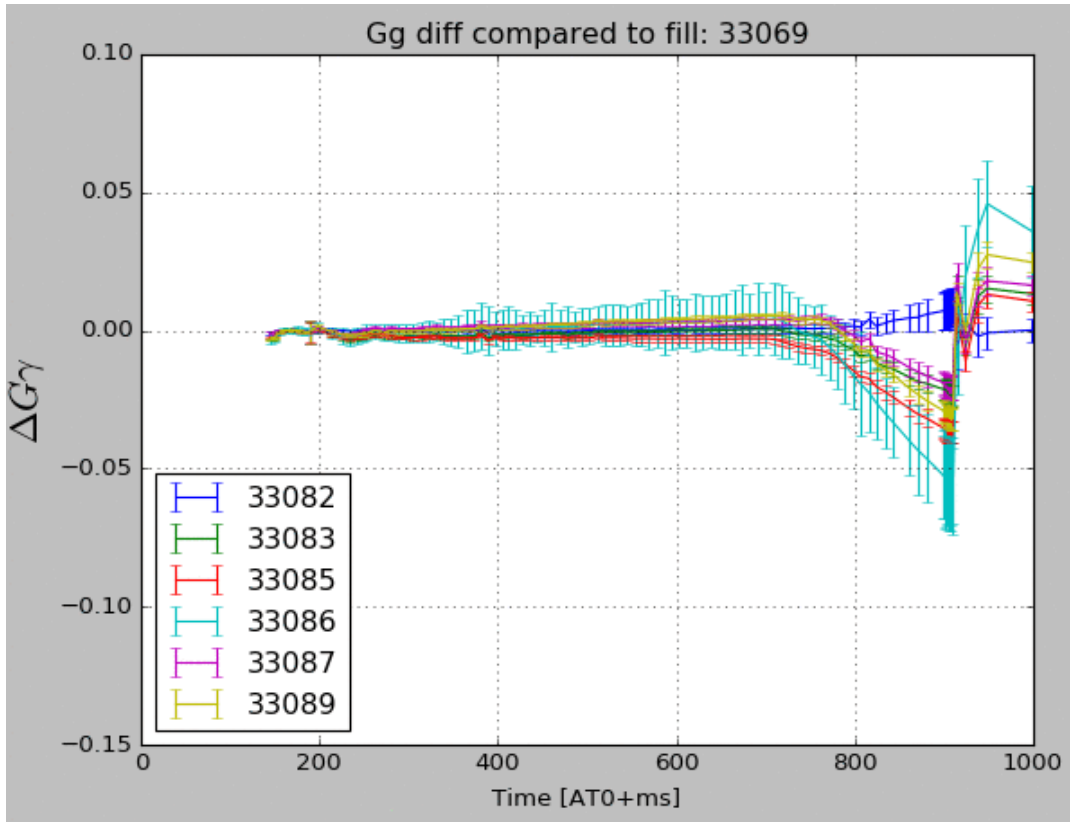


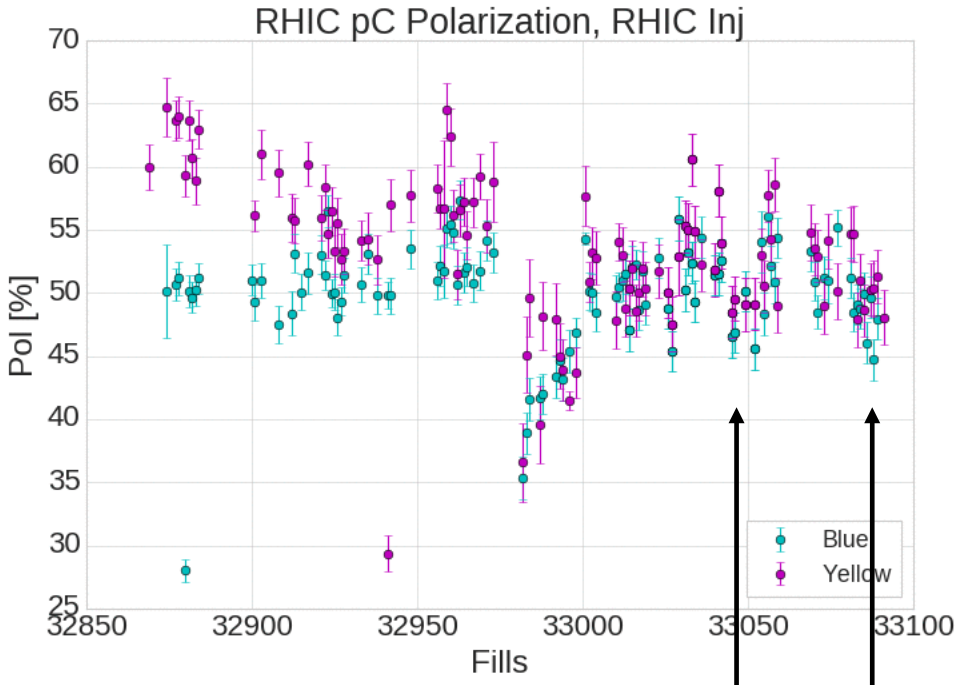

## AGS Extraction Vertical sin9: 0 mm

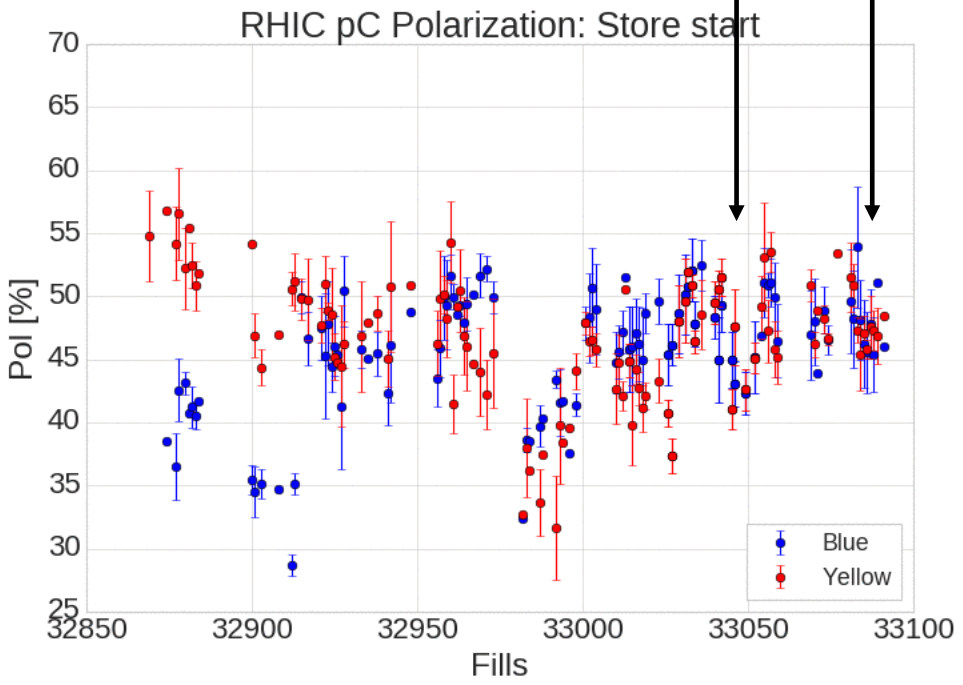


## Westinghouse energy drift

- Corresponds to dips in polarization
- Main component of long term drift seems to come from the liquid rheostat (particular to Westinghouse)
- Voltage loops adjusted this afternoon



# Plans

- Meeting tomorrow to discuss spin direction correction effort, parameter for scan planned for Thursday
- AGS to RHIC transfer line measurements to address residual optical errors
- Pending more diagnostics and decision about Siemens: proceed to split/merge setup with the Westinghouse