

Study of CeC PoP Equipment Effect on the RHIC Beam

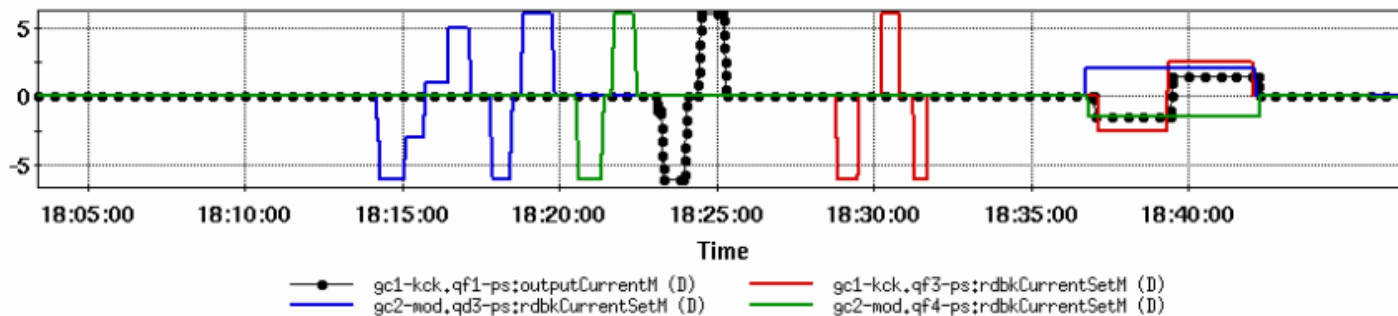
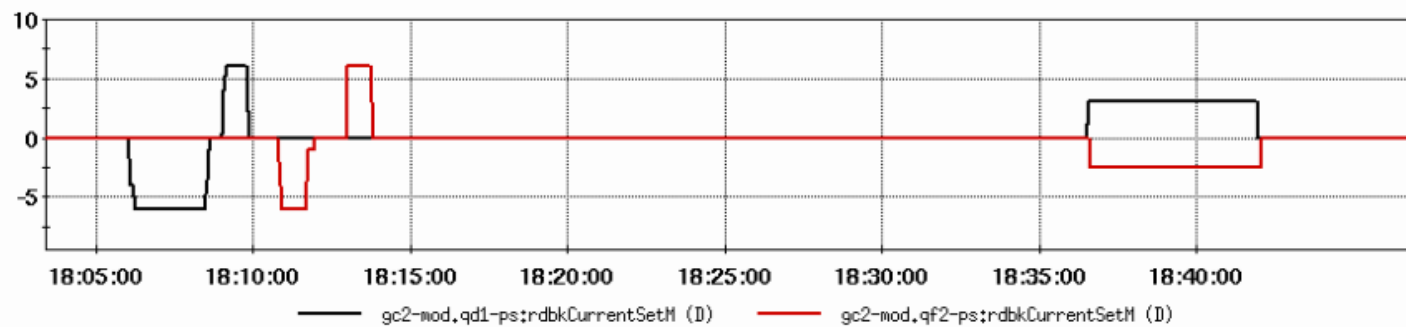
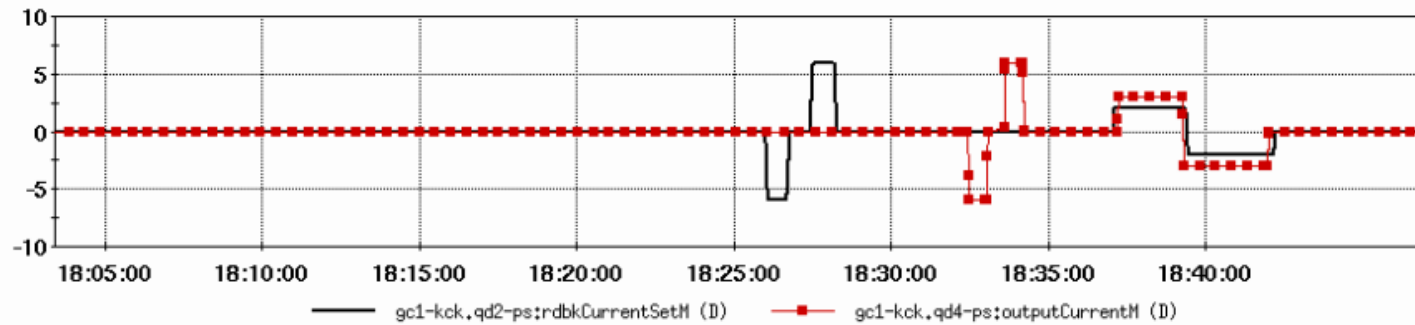
February 26, 2016

Igor Pinayev

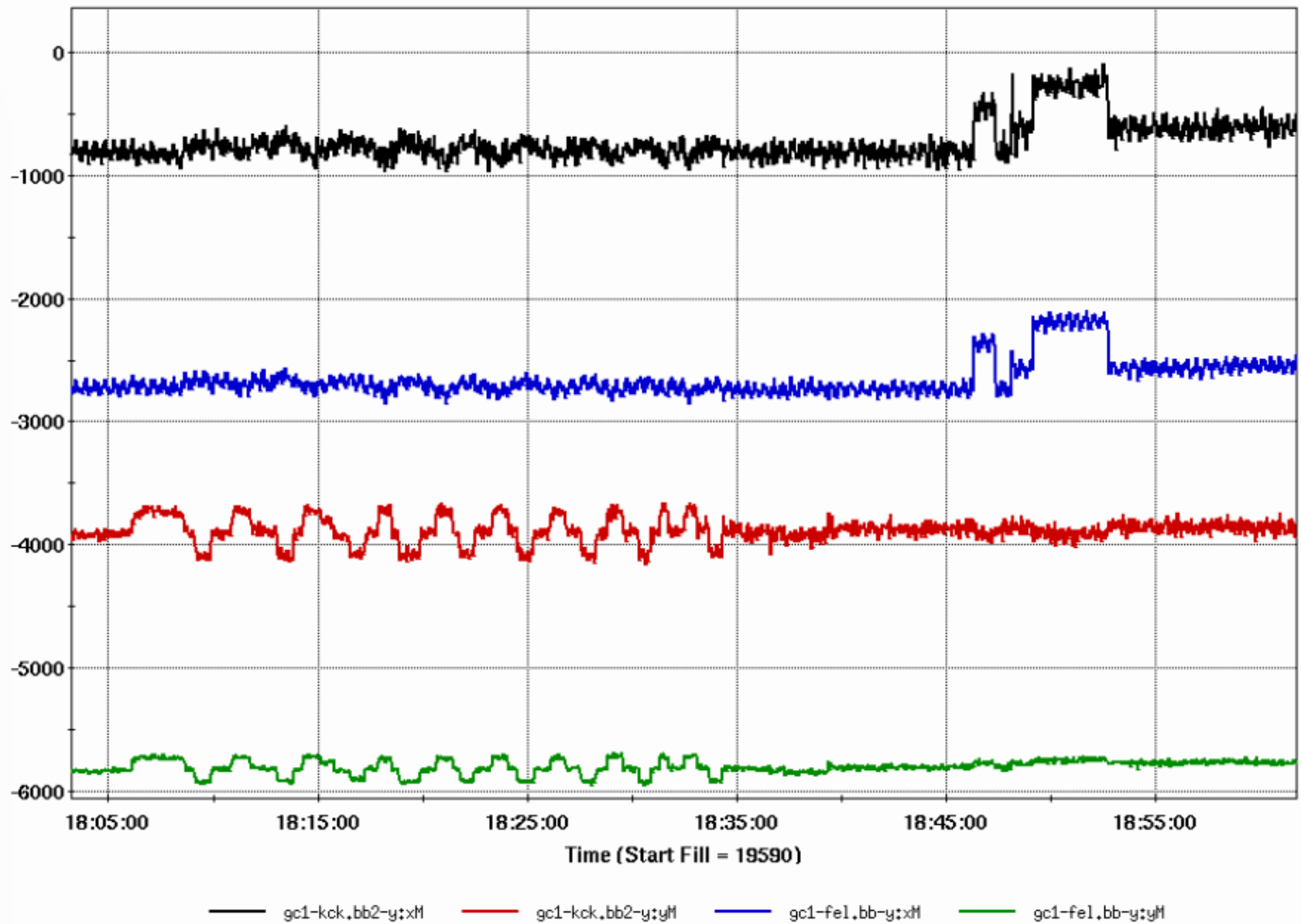
Experiment Set-up

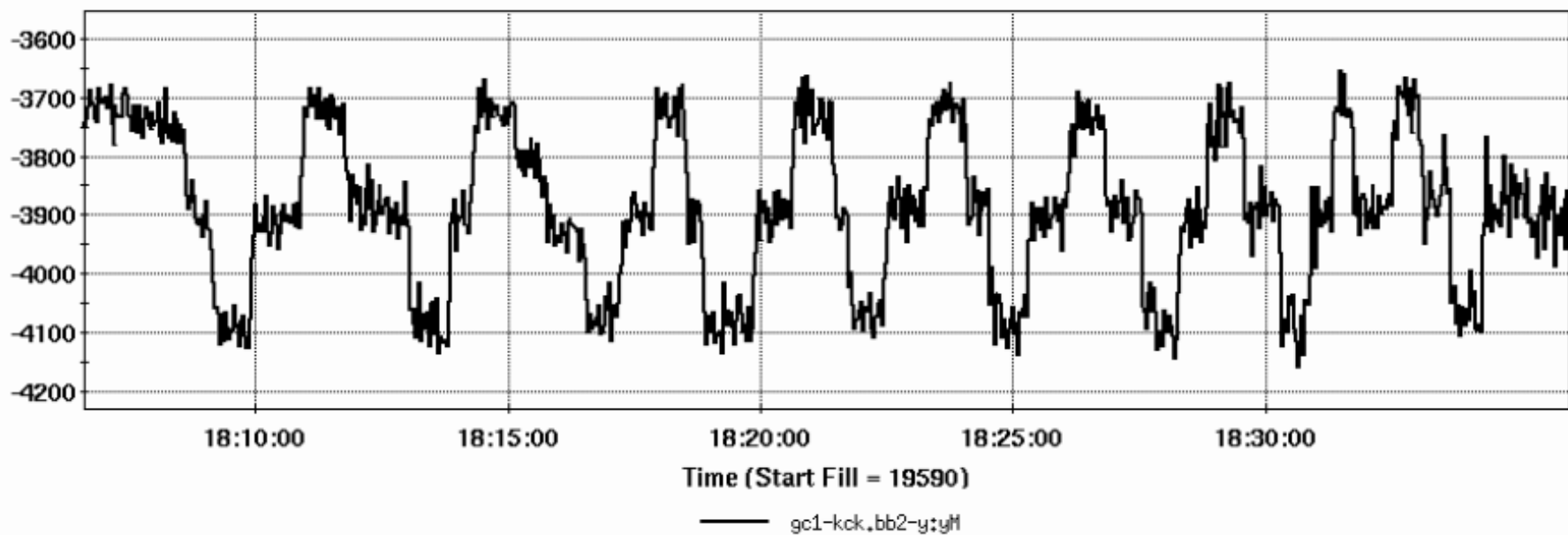
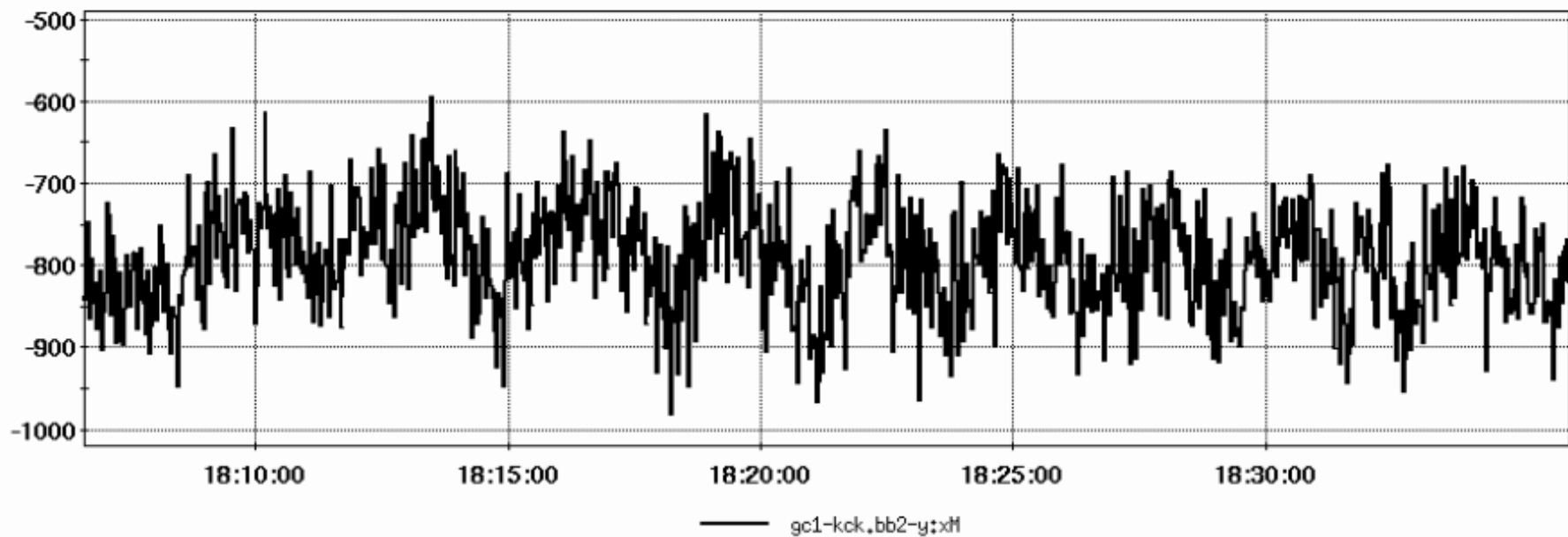
- 12 bunches in the yellow ring
- Gold ions at injection energy ($\gamma=10.52$, $B\rho=81.13$ T m)
- Eight quadrupoles were energized from -6 to 6 Amperes (gradient integral 0.45 T at 5.8 A)
- Dipole was energized to 85 A
- Orbit was monitored using two BPMs in the common section with Libera Single Pass

Excitation Currents

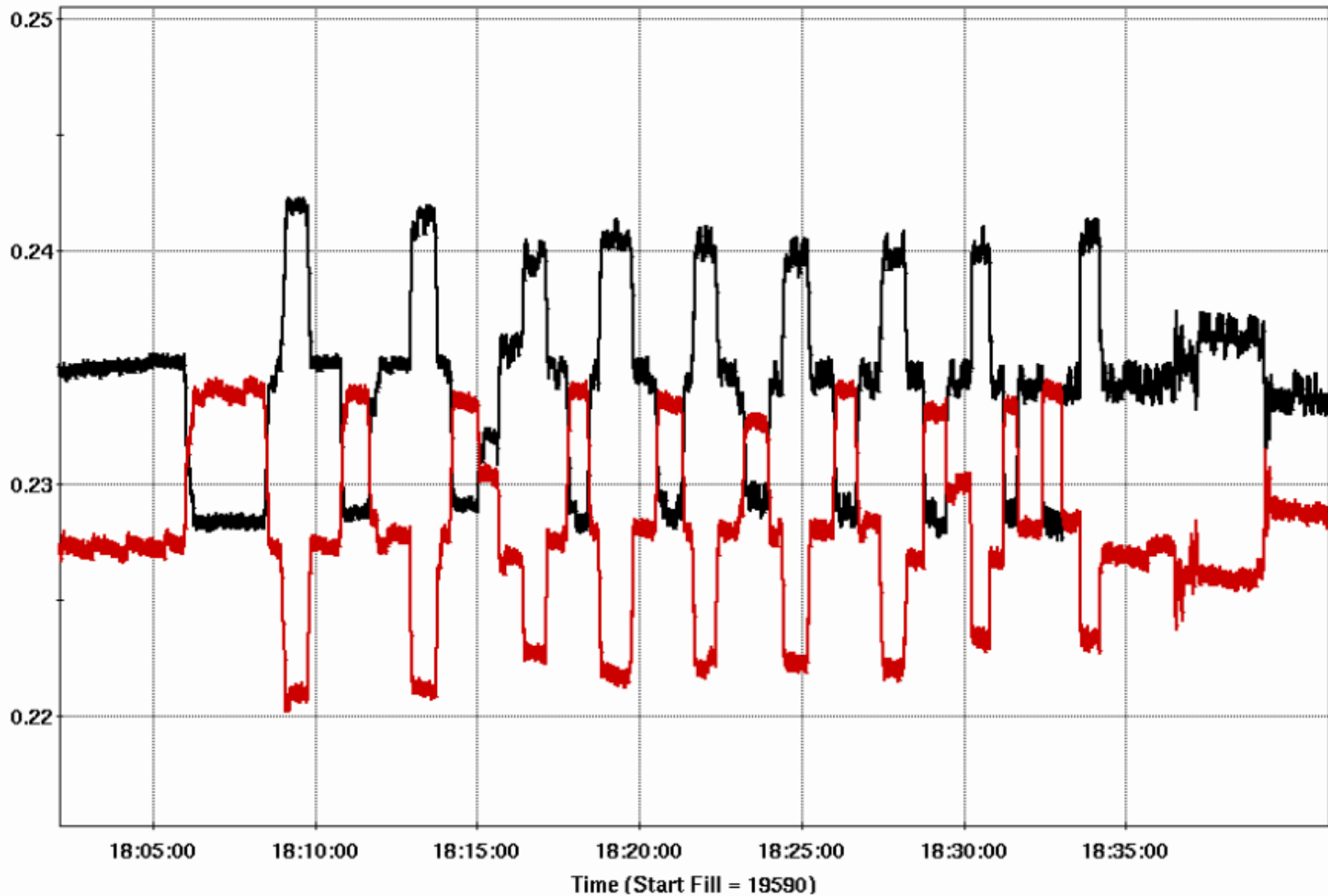


Orbit Variation





Tunes Variation



— larP11.2a-bbqyh:tuneBuffM[.] (D) — larP11.2a-bbqyv:tuneBuffM[.] (D)