Calibration of the CeC PoP BPMs

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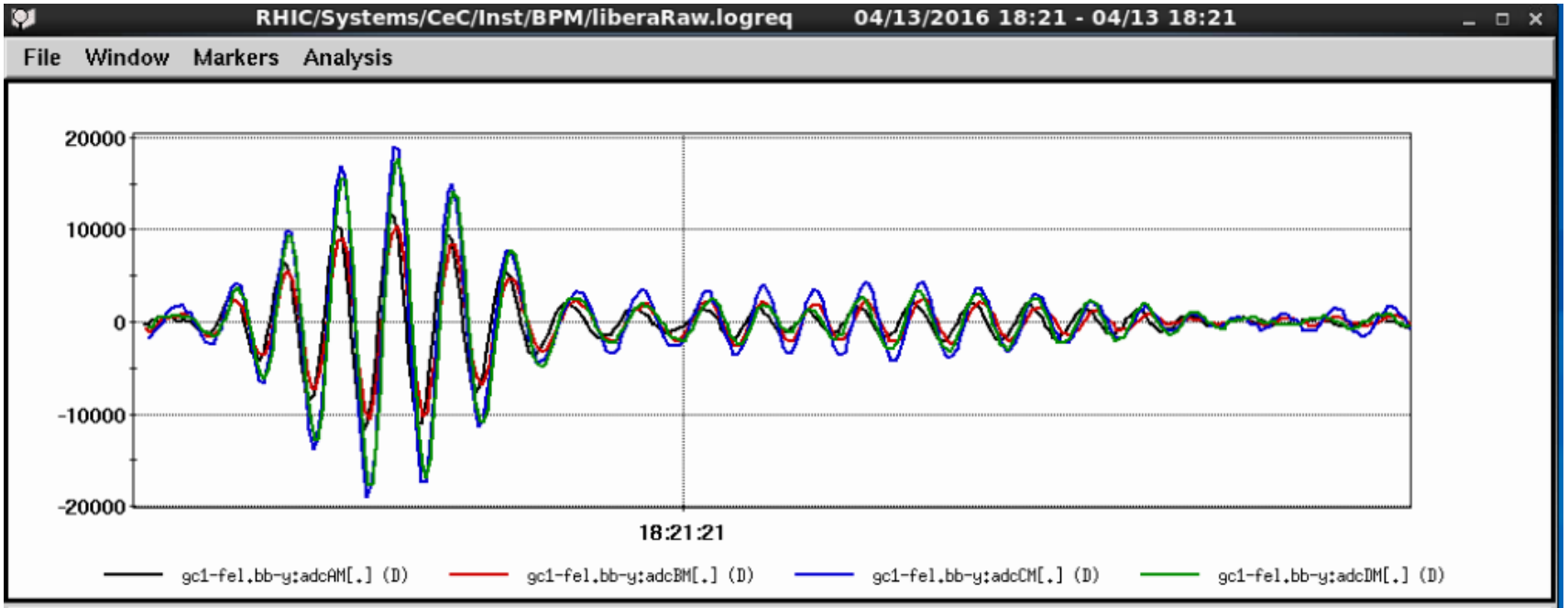
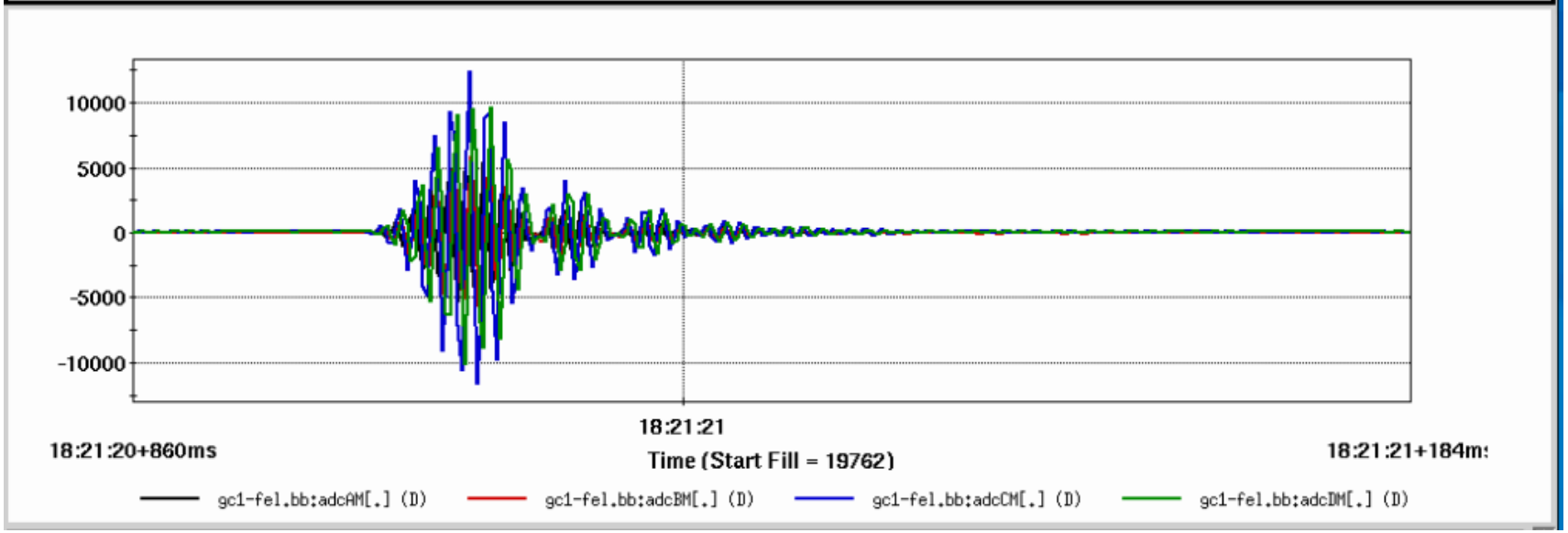
Experiment Set-up

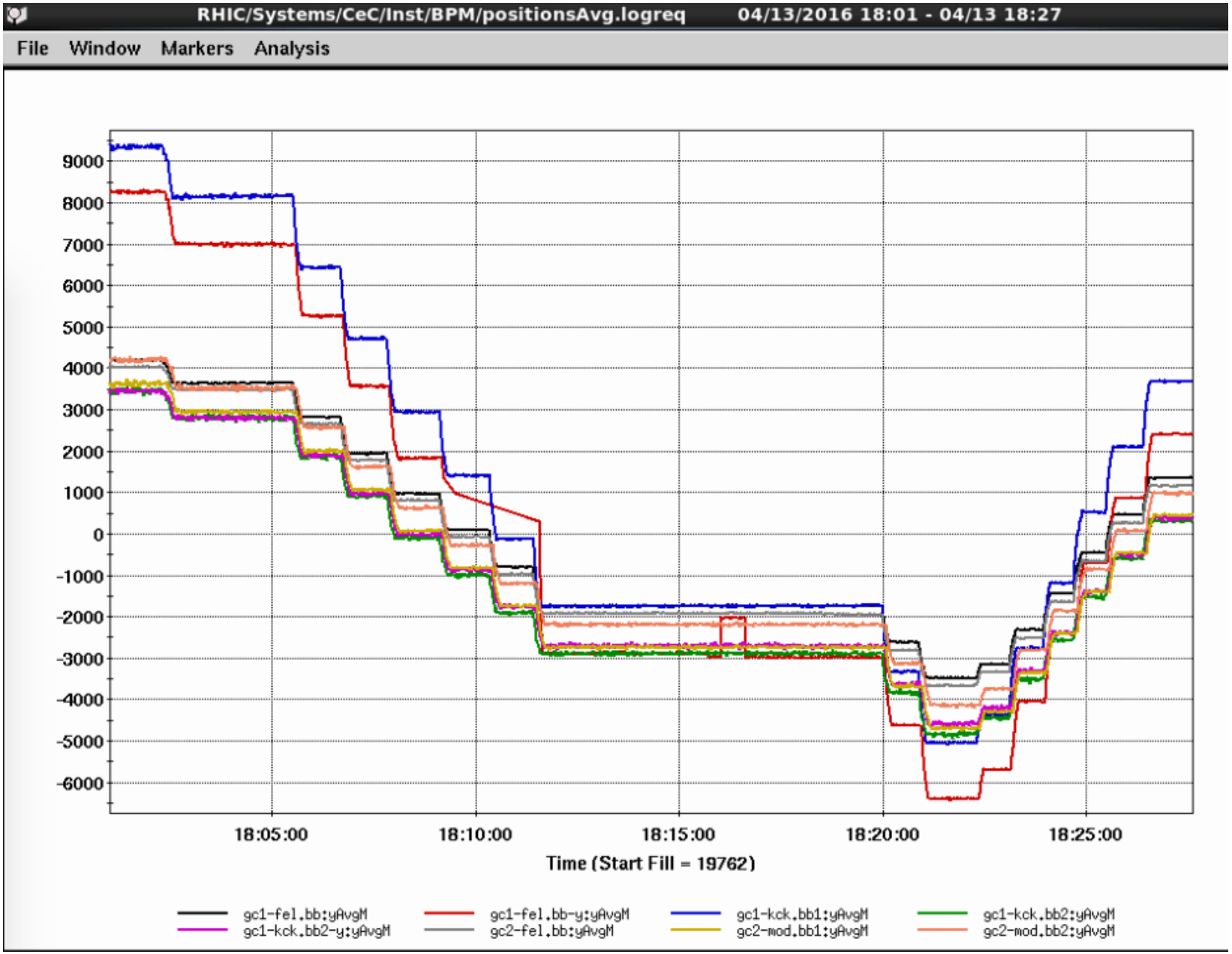
- 6 bunches in the blue ring
- Gold ions at store energy, rebucketed
- Beam was steered in the vertical plane
- Orbit was monitored using two hadrons BPMs (9.38 MHz) and six electron BPMs (500 MHz) in the common section
- Third order polynomial was used for position calculations

Beam Induced Signal



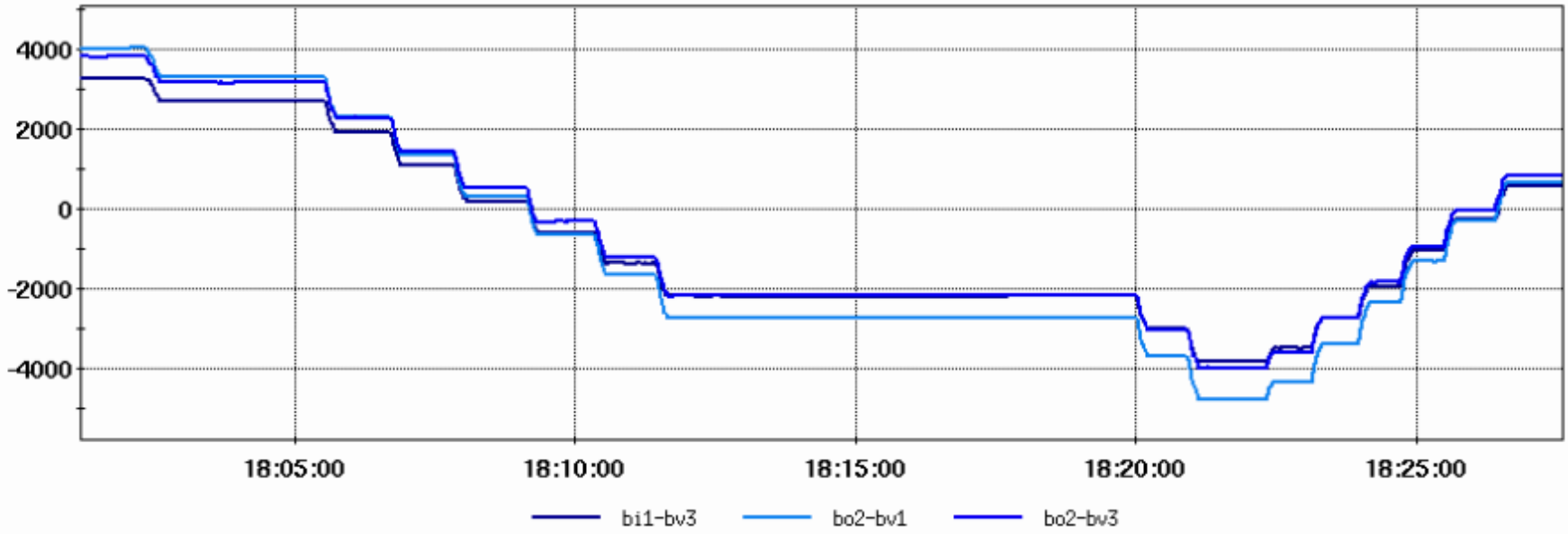


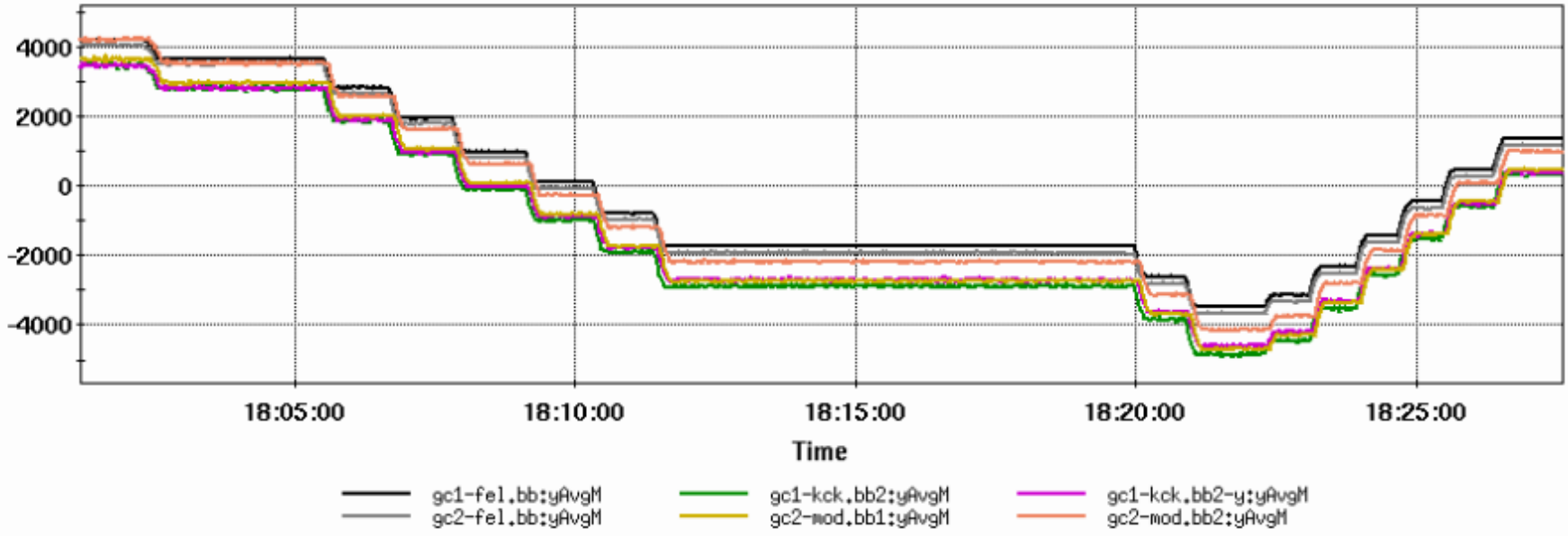
Libera Single Pass Positions



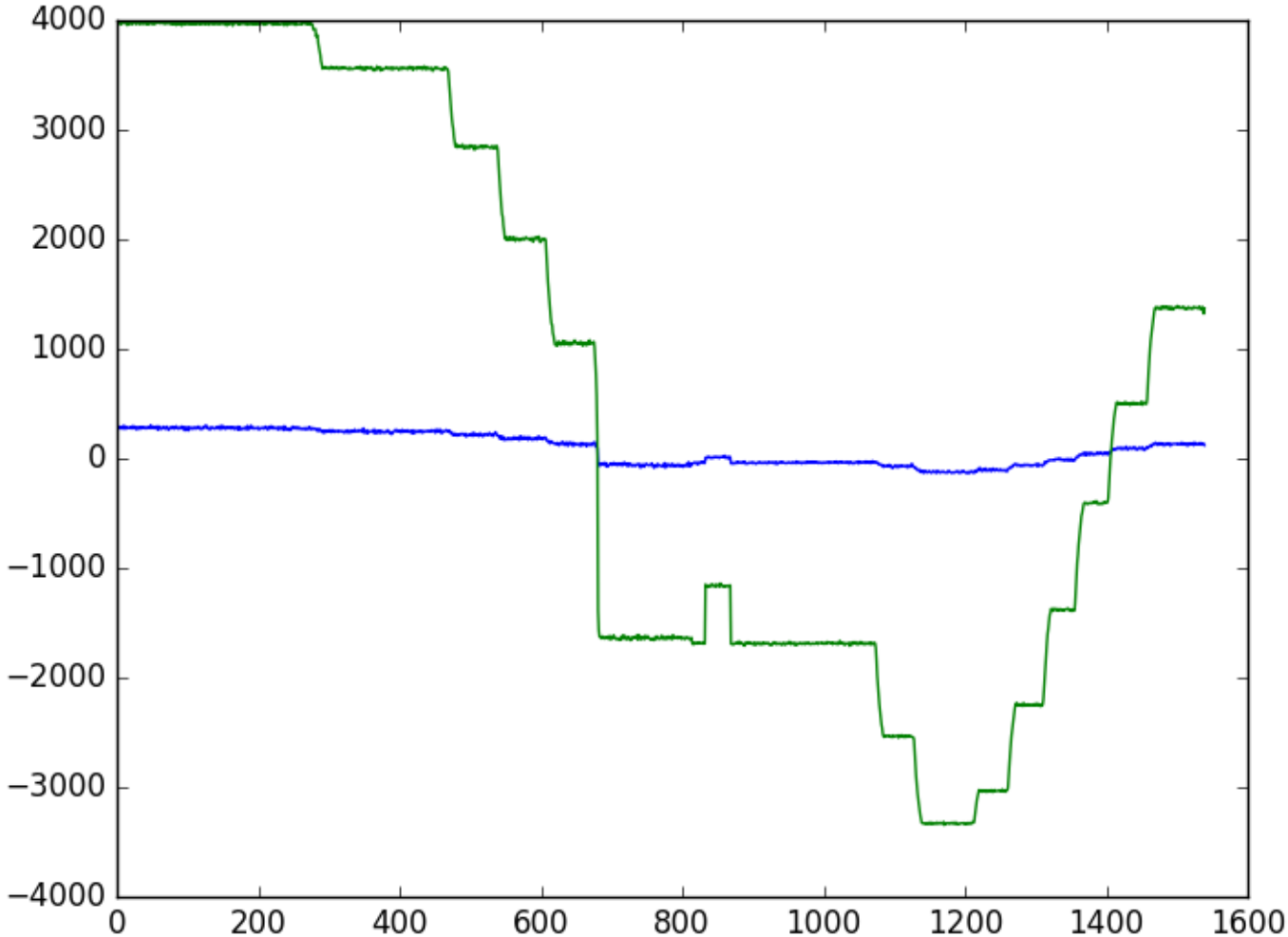
RHIC/Systems/CeC/Inst/BPM/positionsAvg.logreq 04/13/2016 18:01 - 04/13 18:27

File Window Markers Analysis





Recalculated Position



Conclusions

- Coefficients for position calculations are correct
- Two BPMs require loading of proper values (mix-up of diamond and round chambers
- We would like to perform a horizontal scan as well