ATF DR BBA

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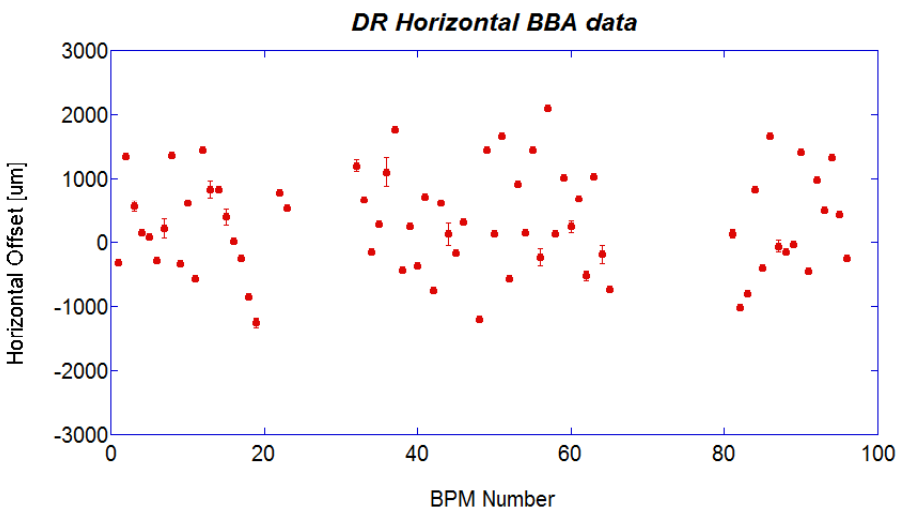
ATF2 project meeting

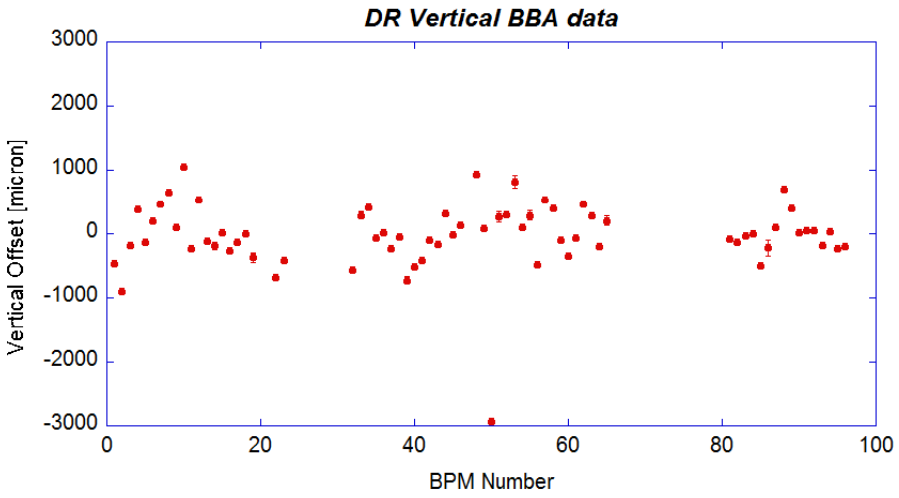
We measured the BPM offsets swith respect to magnet centers near by the BPMs for

-All BPMs in arc section (QF2R and SD1R)

-Around injection/extraction region (M.19, M.21, M.22)

DR BBA result

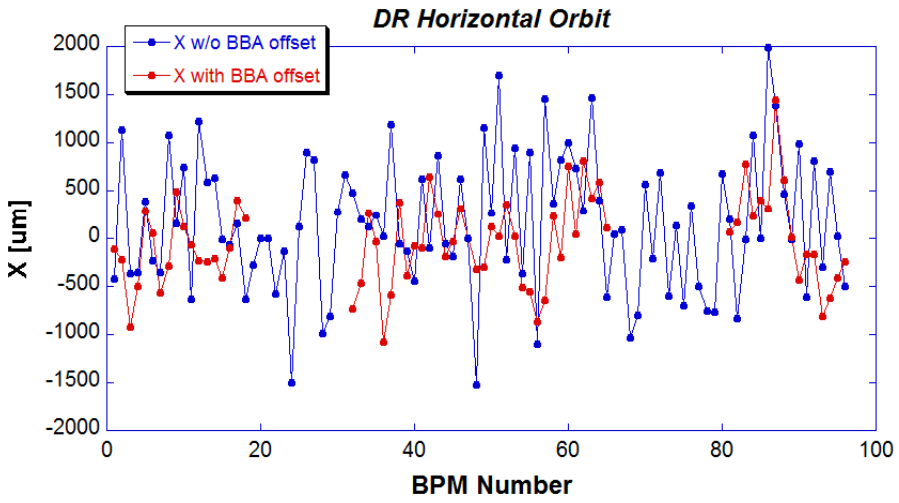


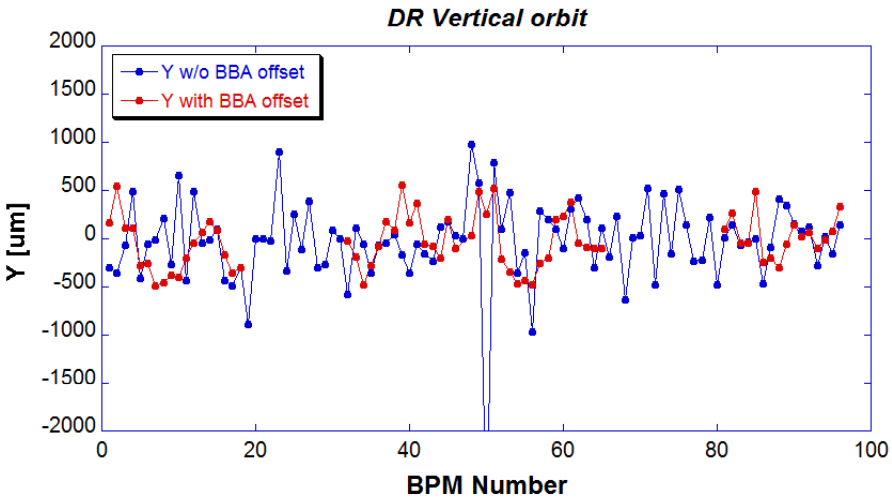


- Horizontal BPM offsets are scattered within +/- 2mm.

- Vertical BPM offsets are scattered within +/- 1mm.

Application of BBA data for arc section





Without BBA data

-the residual COD was large after COD correction (especially for horizontal)

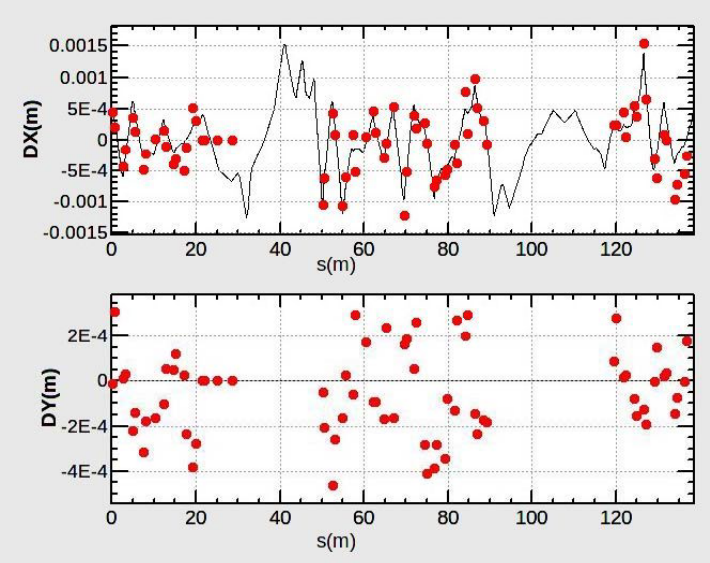
-the fluctuation of the readout position was large.

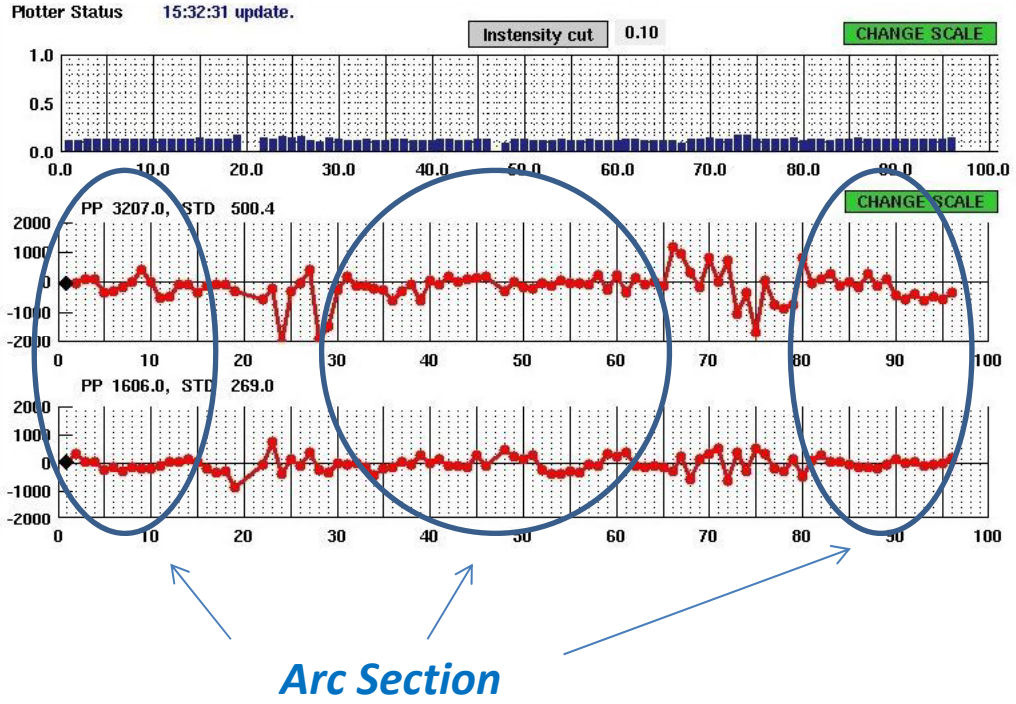
With BBA data

-the residual horizontal COD was still large,

but the readout position was smoothly connected to the neighbor BPMSs.

Horizontal Orbit Correction



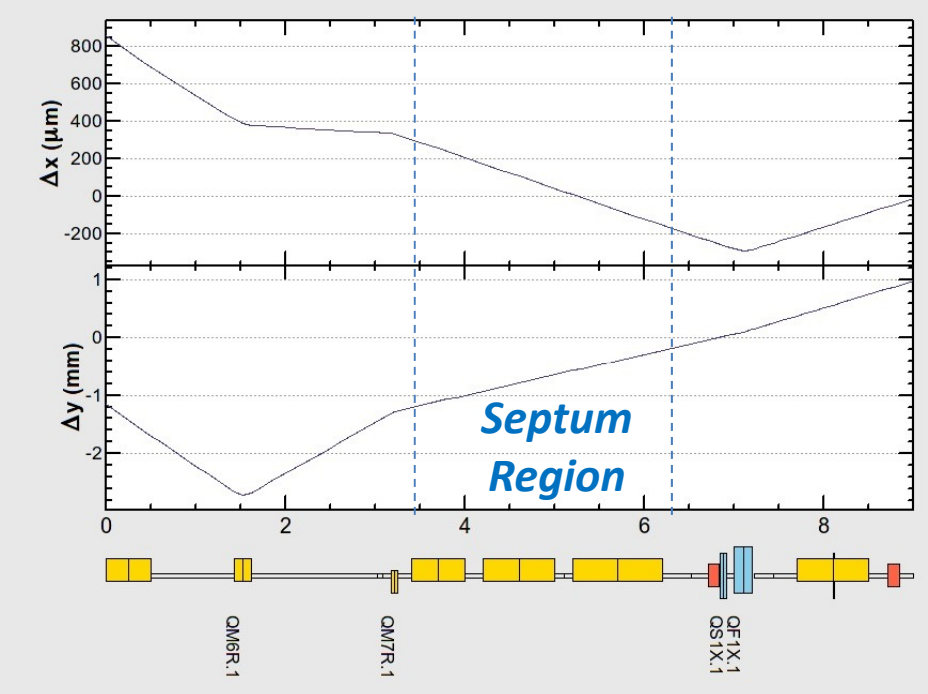


Arc Section

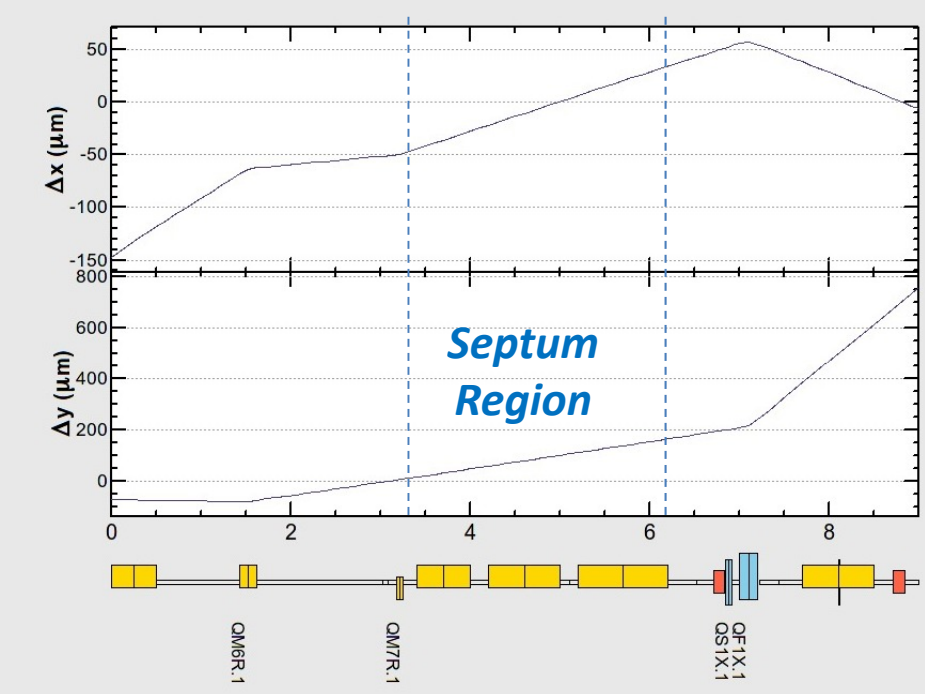
We could make the horizontal orbit of arc section flat by orbit correction program, when we applied the BBA data

Beam Orbit in Extraction Septum

Before Correction



After Correction



The beam orbit around extraction region was improved.

Summary

We measured the BPM offsets swith respect to magnet centers near by the BPMs for all BPMs in arc section and around injection/extraction region.

The COD orbit was improved by applying the DR BBA data.

The beam orbit around extraction region was improved by applying the BBA data