

Second order chromaticity correction for Au104

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(APEX: 2010 Jan. 26-27)

1. 3hrs allocated for this job, 3hrs used.
2. First worked on single Blue beam left by previous experiment

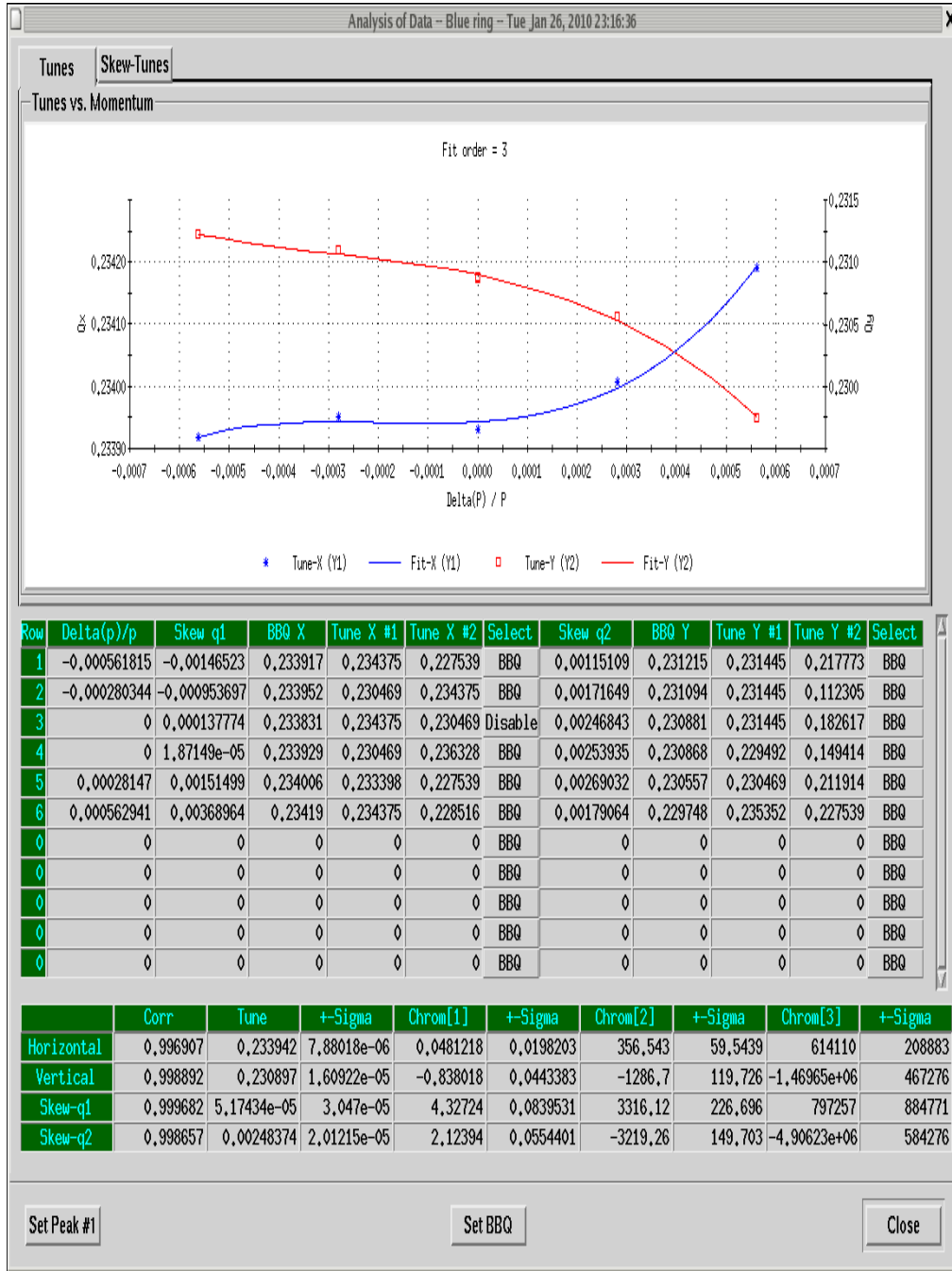
Did one fresh ramp, worked on single Yellow beam.

- No separation bump in the measurement and correction

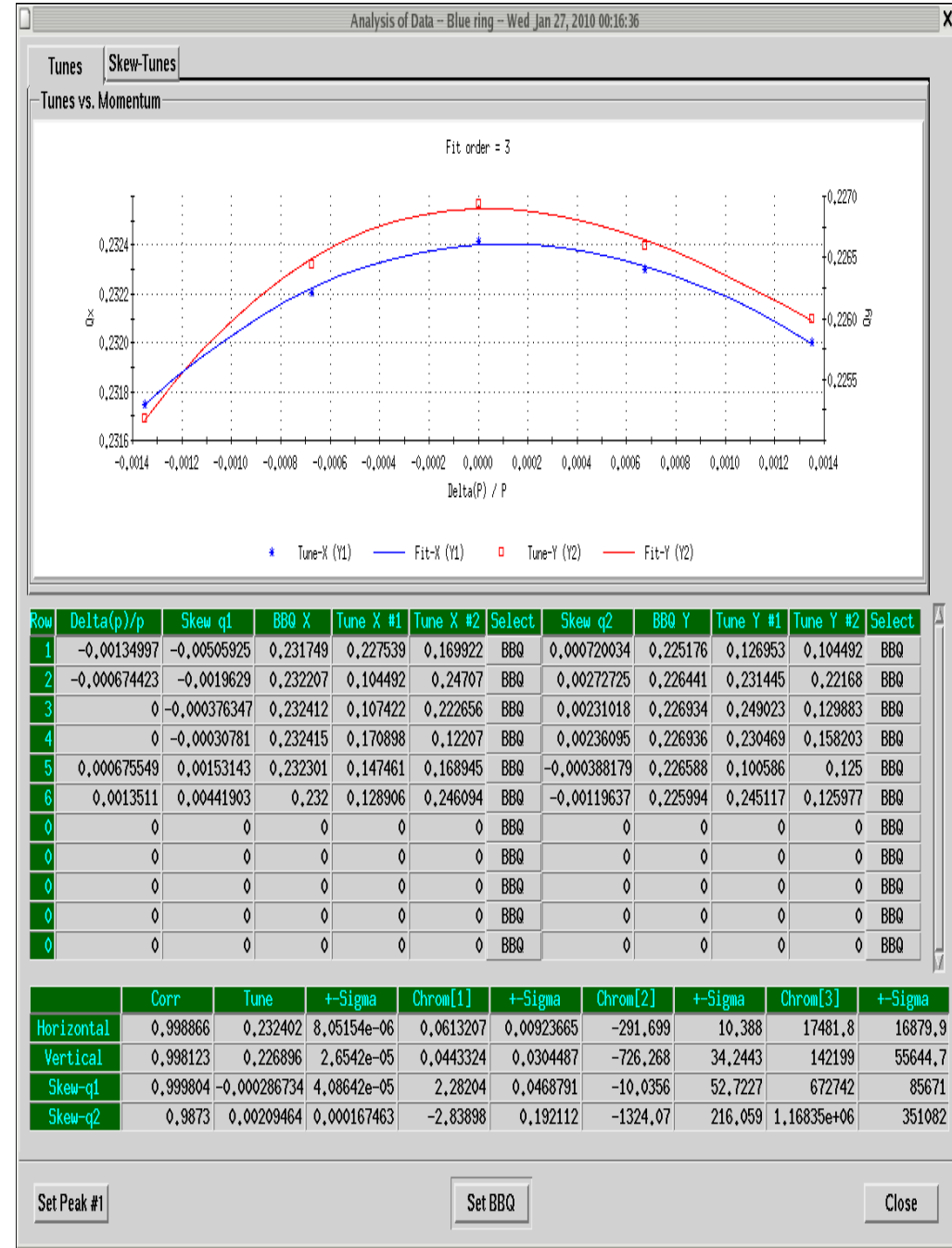
3. Summary:

- 1) We were able to bring $|Q''| \sim 500$ for both rings in the measurement range.
- 2) Blue radial shift went up to 2mm while yellow around 0.5 mm.
- 3) small Q'' didn't give small beam decay during measurement for yellow.
- 4) Yellow vertical dispersion is about 2m in IR6.
Blue maximum vertical dispersion about 0.8m in IR8.
- 6) Blue loss during Q'' measurement located at IP
Yellow loss during Q'' measurement located at IP4 ($s=3195m$).

Blue Q" correction:



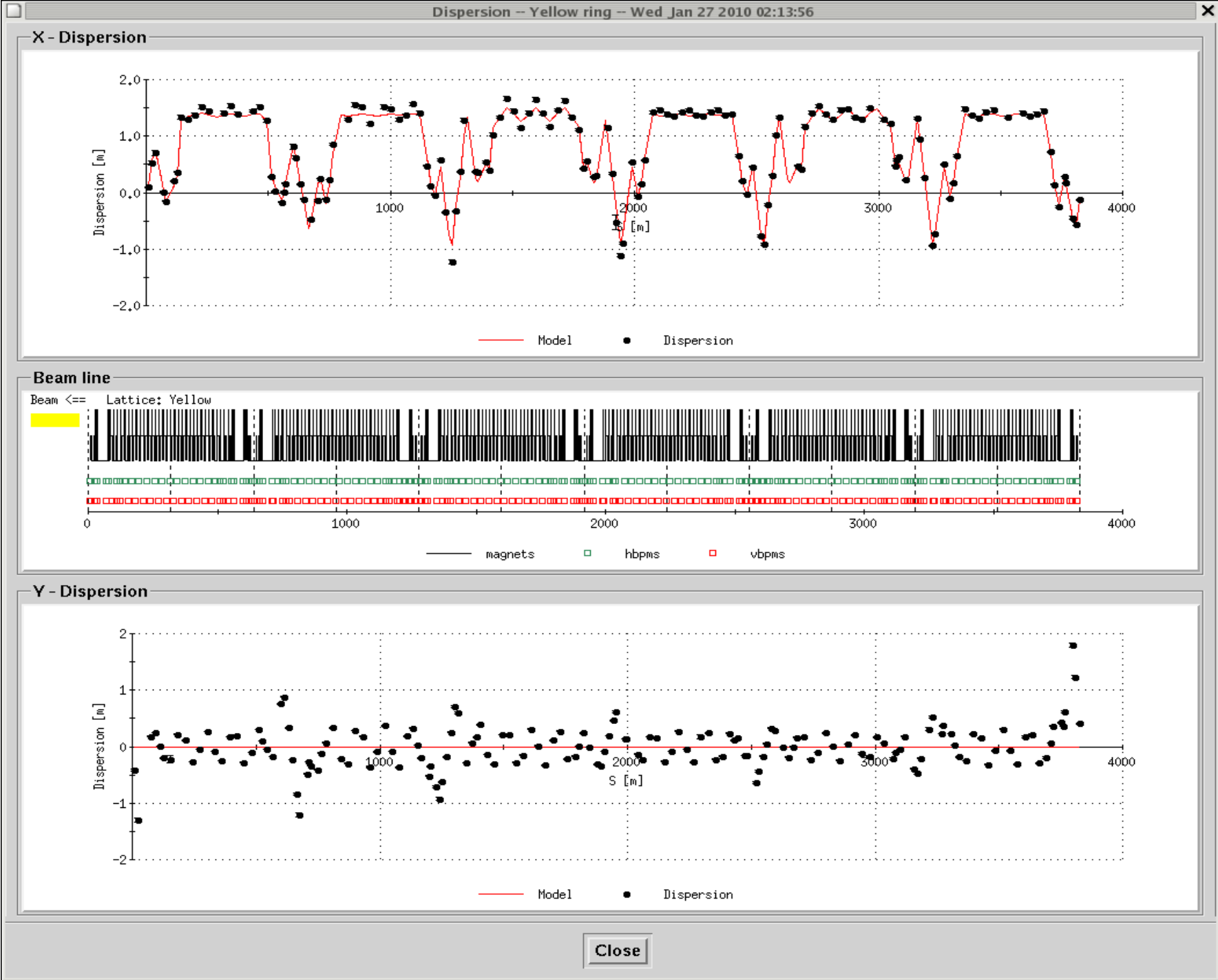
(before correction)



(After correction)

Dispersion measured:

(Yellow ring)



(Blue ring)

