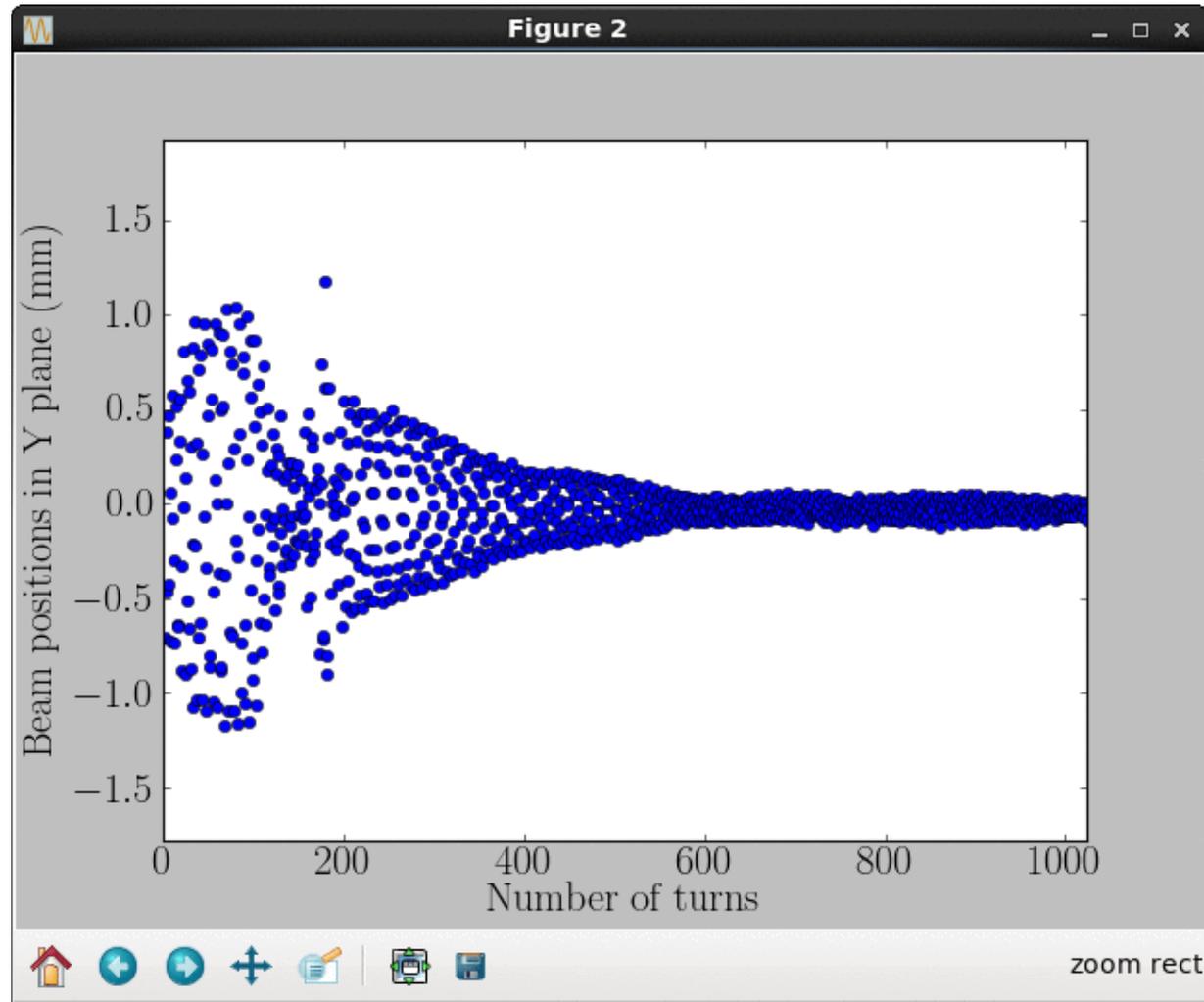


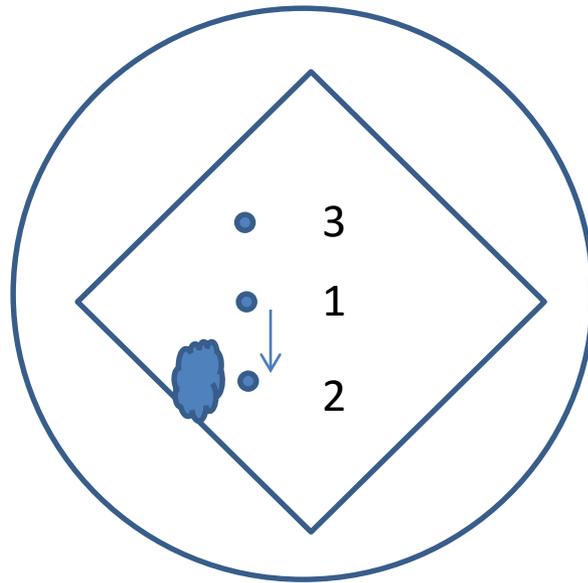
What's been done

- Diamond shape vacuum was realigned, major vertical offset and minor horizontal offset were fixed.
- Inspected the inside of the chamber, found the loose RF fingers retracted and no other obstacles.
- Tried to reduce the vertical separation between two beams, beam loss was relatively high (50%/hr) due to beam-beam.
- Managed to reduce the beam angle from 1 mrad to 0.7 mrad with beam offset at D0 magnets.
- Found out one can move beam closer to the wall once it is injected.

Injection oscillation



aperture



How to inject beams in d-Au run with IR2 aperture limit?

- Inject IBS-robust Deuteron beam first with no vertical offset.
- Once Blue ring is filled with Deuteron, move beam down to -4 mm vertical offset at IR2.
- Then inject Gold beam in Yellow ring with +4 mm vertical offset.
- Both beams are with horizontal offset in triplets and D0s to reduce beam angles.