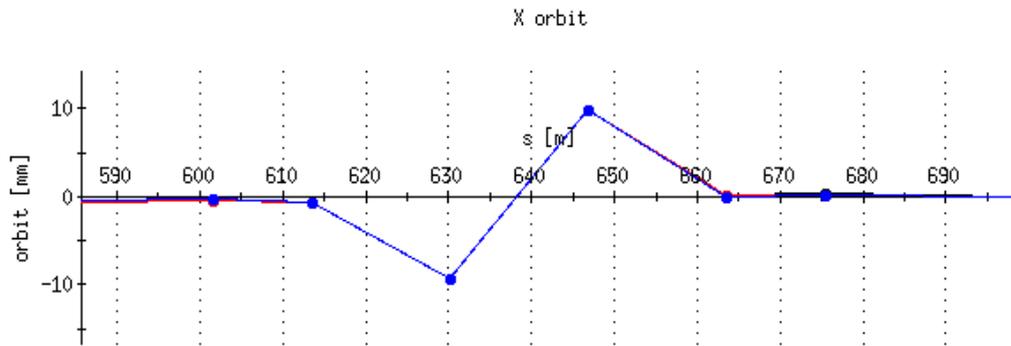


PHENIX crossing angle

- APEX, May 20, fill # 19083.
- With proton and Au at proton injection, we changed IR12 angle first as a test, then changed IR8 angle.
- The crossing angle changed from -0.0014 mrad to 0.002 mrad.

6 by 6 store for PHENIX run

Machine development, May 21, Fill # 19090

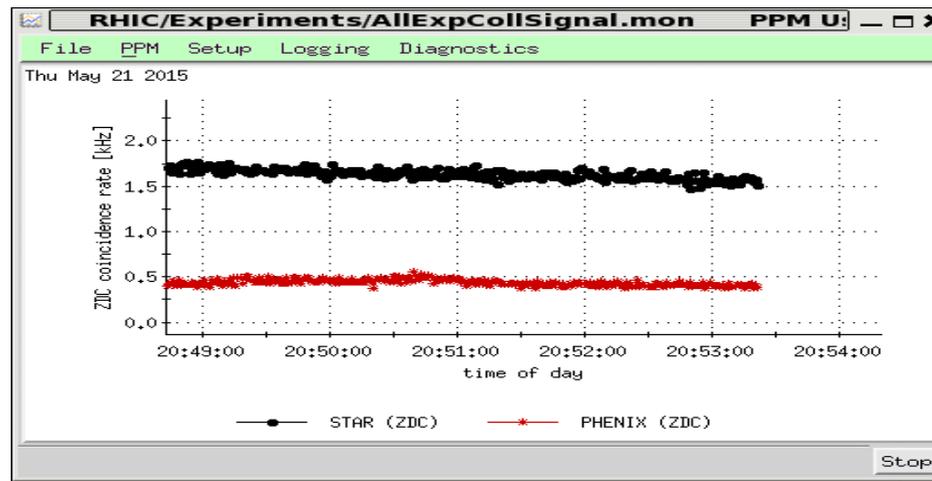


Scale Control:
Region: Ring Orbit scale [mm]: 0.5

Orbit list:

S	D	Name	Comment	Src	Clr
	+	4	Thu May 21 20:47:48 2015	Measured	
	+	5	Thu May 21 20:47:52 2015	Measured	
	+	6	Thu May 21 20:47:56 2015	Measured	
	+	7	Thu May 21 20:48:00 2015	Measured	
	+	8	Thu May 21 20:48:04 2015	Measured	
	+	9	Thu May 21 20:48:08 2015	Measured	

The Blue beam angle for this store is 2.22 mrad, the Yellow beam angle is 4.22 mrad, therefore the crossing angle is 2 mrad. The Yellow beam offset at DX BPMs is $4.22 \text{ mrad} \times 8.3 \text{ m} = 35 \text{ mm}$. The DX BPMs was moved with DX magnets by 25 mm, therefore they reported +/- 10 mm.



Some notes

- Collision rate at PHENIX was $1/3$ of that at STAR.
- Background was mild per KAD.
- For fewer bunches store, the gain of SC cooling should be reduced. (6 by 6 store, longitudinal 25, horizontal 28.)