

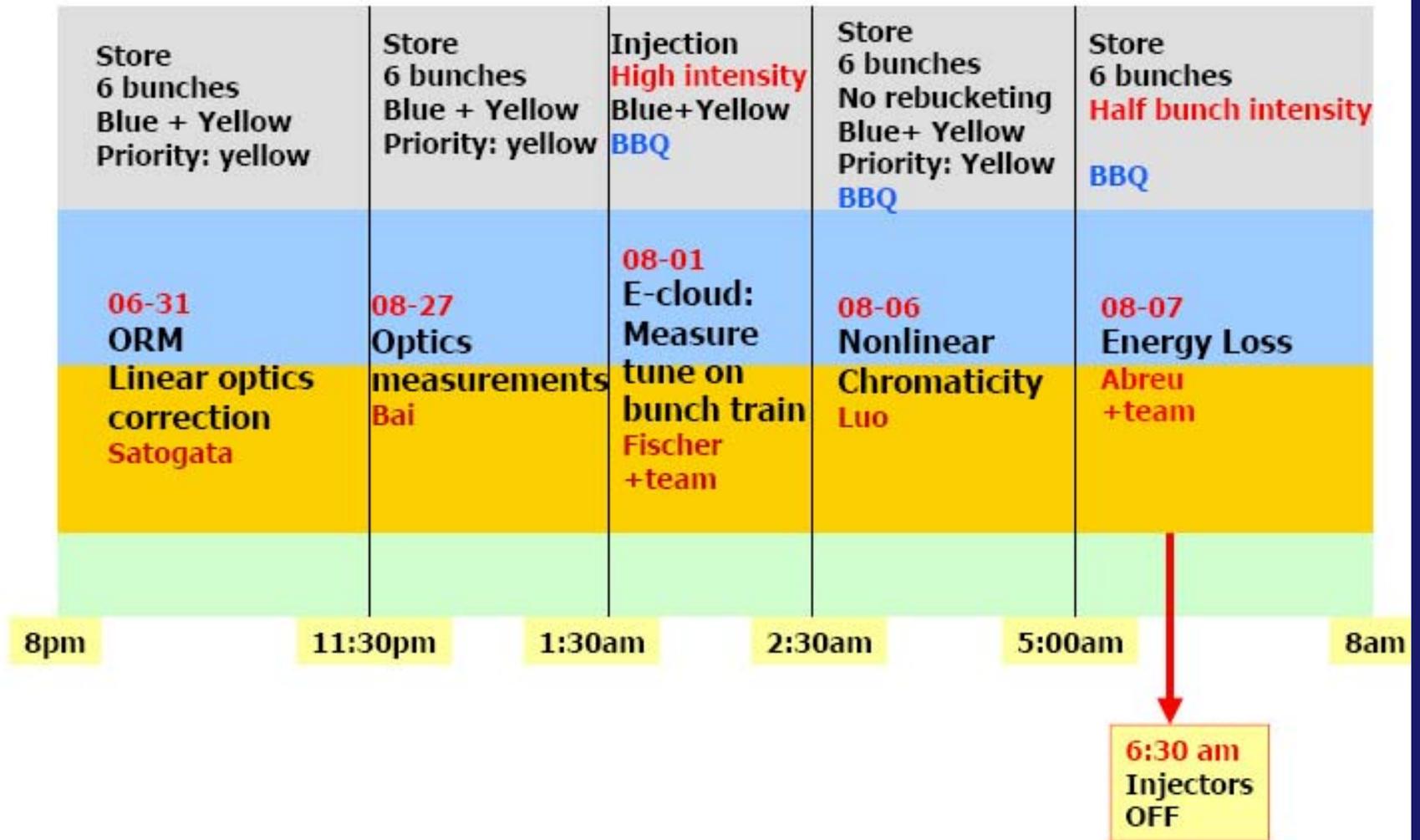
APEX Summary:  
December 4-5, 2007

Fulvia Pilat

Time Meeting, December 11 2007

# APEX Schedule

December 4-5 2007

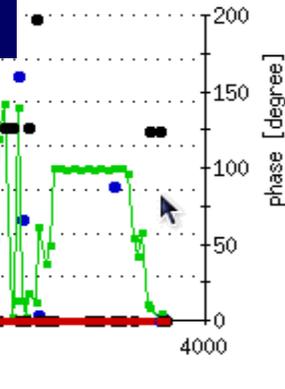
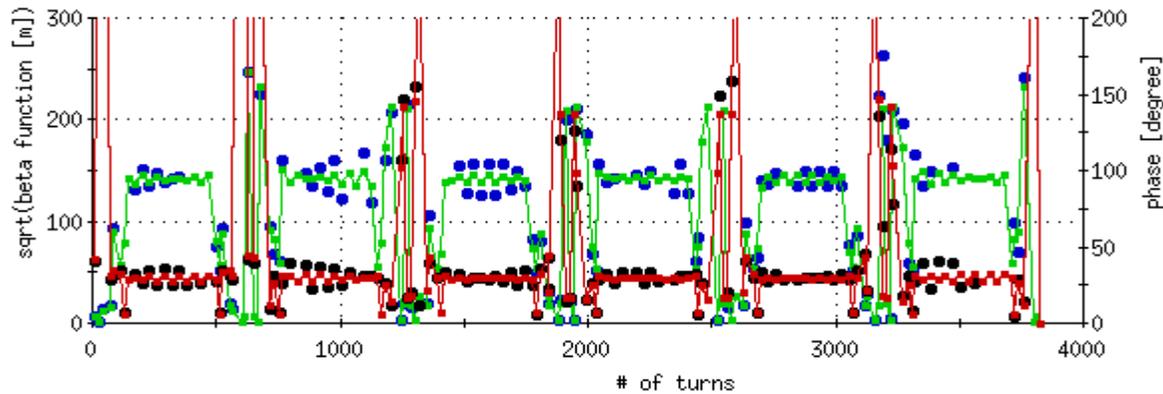


# Orbit Response Matrix - Satogata

- ❖ APEX started with PS y2-q89 and BtA Geneva foil problems that prevented use of the yellow beam until 11:45 pm.
- ❖ Todd worked with the blue beam and when yellow became available a 6x6 ramp was put up for ORM in yellow until ~2:15am (*→ delay and less time for subsequent studies*)

A full set of ORM data was taken (high priority)

- ❖ Todd has now a prediction for quad correction setting to fix the optics errors that have been tested on the end of today's morning store: **100% correction was put in...preliminary results on difference orbit look better after correction....**Mei will re-measure optics tomorrow morning.



● vert beta func (Y1)      ● model beta (Y1)  
 ● vert phase (Y2)        ● model phase (Y2)

- Only 20 minutes to take data at store
- From the two data sets, the H beta\*:
  - --, --, --, 1.15, 2.77, 3.18
  - 3.02, 3.37, --, 1.05, 3.07, 3.15
  - fluctuation at IP8 with the same conditions
- Have trouble to excite beam more than 0.5mm in vertical when drove the beam at 0.02 away

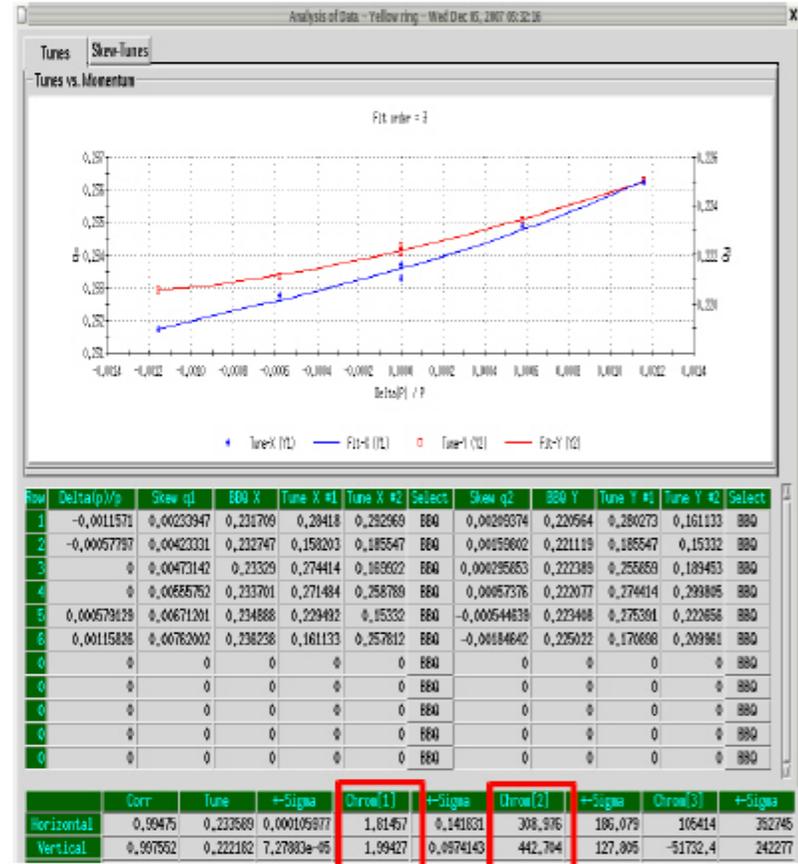
**Mei Bai**  
**Optics**  
**Measurements**

# Nonlinear chromaticity - Yun Luo

## 2. Yellow ring story



Before correction: 2 families



After correction: 8 families

- ❖ Resolve inconsistencies with the model
- Make it operational is necessary (goal is for PP)

**APEX**

**RUN-8**

# APEX Schedule

December 12 2007

Store  
6 bunches  
Half bunch  
intensity  
BBQ

Store  
6 bunches  
Yellow  
AC dipole

~1 h at injection  
~1.5 h ramps+store

Ramp testing  
Ramp development, 6 bunches  
Collision rates, background  
BBQ

08-07  
Energy Loss  
Abreu  
+team

08-27  
Optics  
measurement  
Bai

08-14  
Collimation  
at injection  
and on the  
ramp  
Drees

08-17  
Beta\* squeeze  
Pilat, Litvinenko  
Satogata, Tepikian, Bruno,  
Malitsky, Bai, Ptitsyn, Drees  
+ others...

5am

7am

8:30am

11am

5pm