

APEX

Summary December 12
Plans for tonight

Fulvia Pilat

Time Meeting, December 18
2007

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

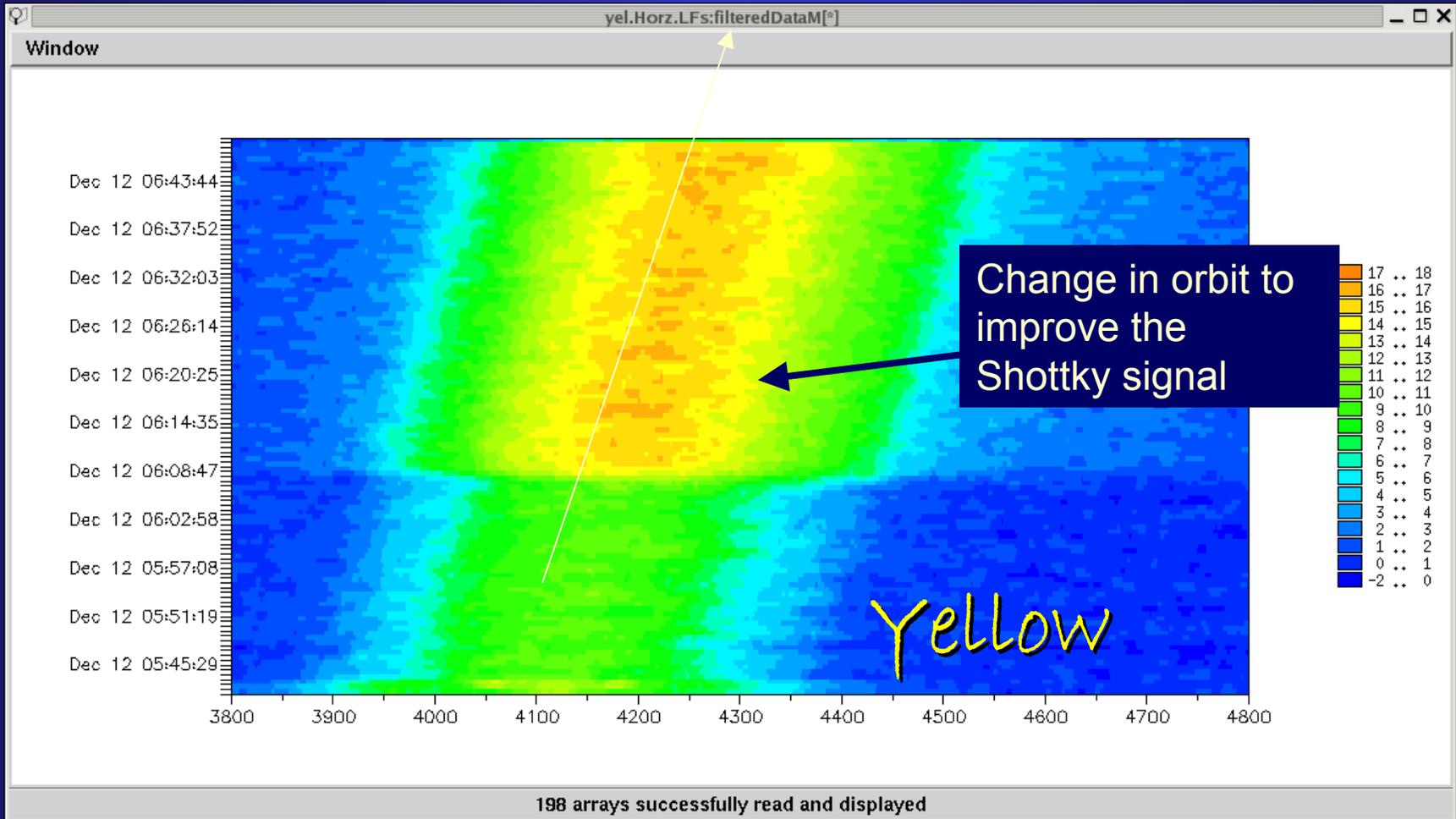
8:30am

11am

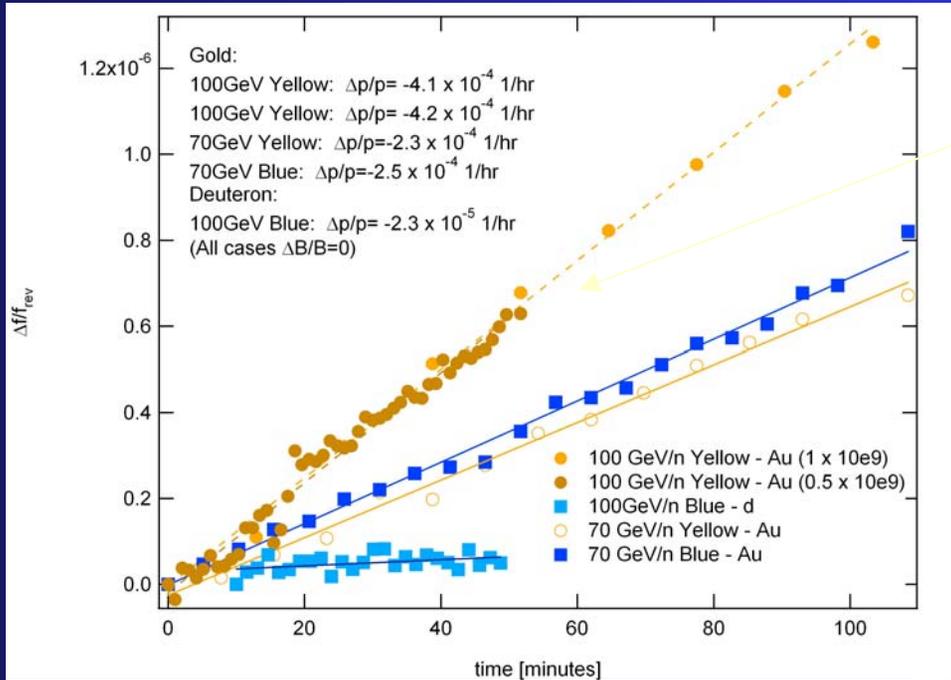
5pm

Energy Loss Experiment

- ❖ N. P. Abreu, W. Fischer,
- ❖ K. Brown, M. Blaskiewicz, J. Buttler, and H. Burkhardt (CERN)



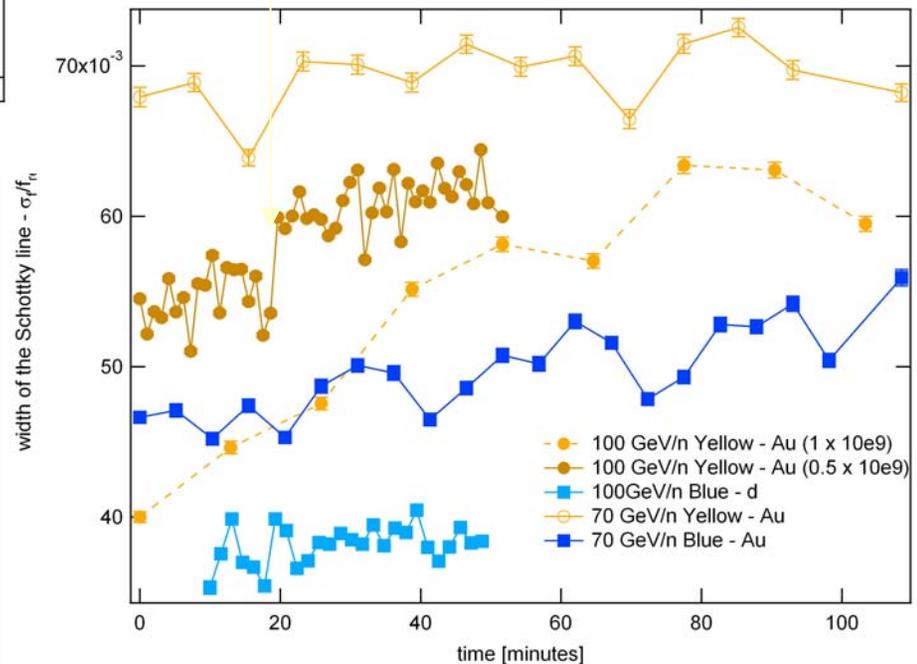
Results



The Yellow measurement is on top of the first one!!!

Orbit Change

This time we could not observe any increase in the energy spread. In the previous measurement this could be caused by crosstalk between Yellow and Blue (?)

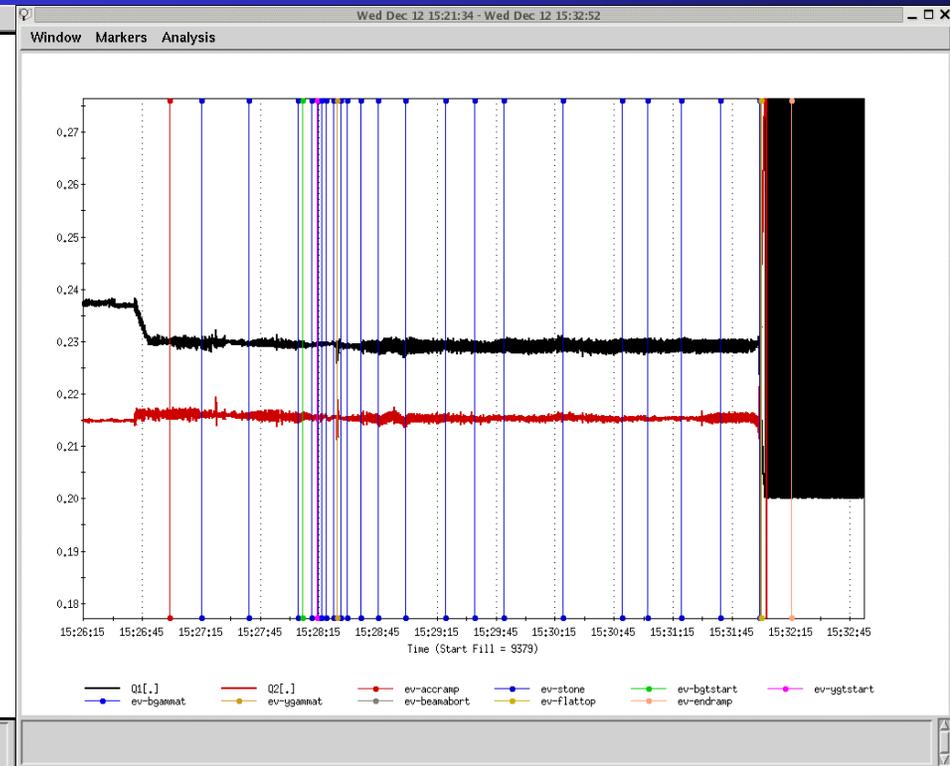
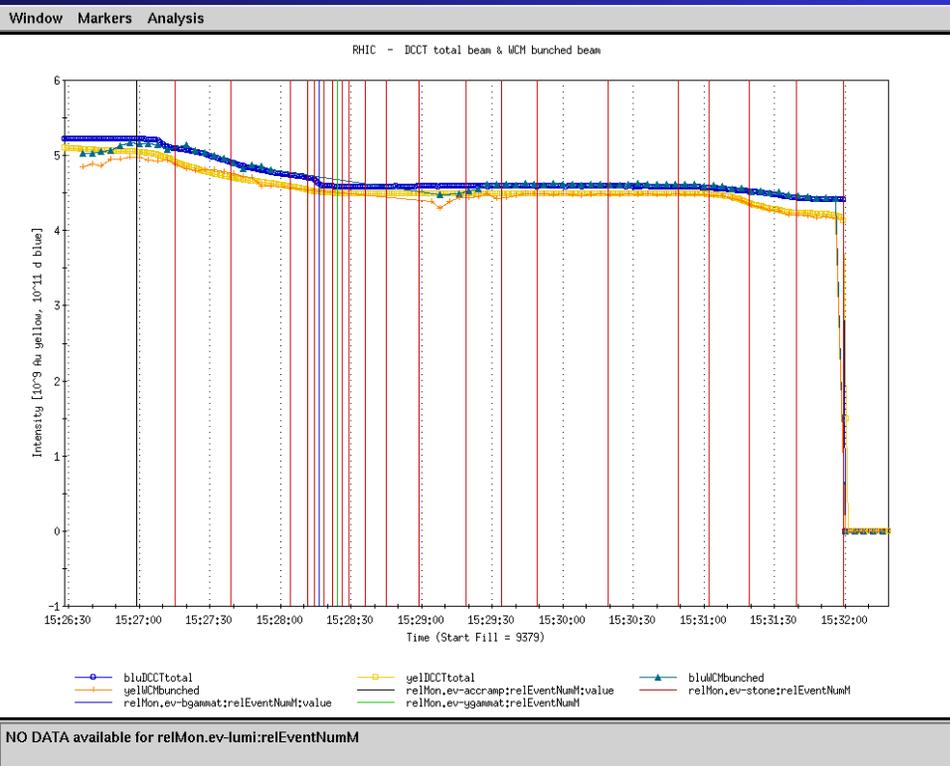


Beta* squeeze
APEX: December 12
Development: December 13

Pilat, Litvinenko

Bai, Bruno, Della Penna, Drees, Louie, Luo,
Malitsky, Marr, Ptitsyn, Satogata, Tepikian,
Trbojevic
+ Operations

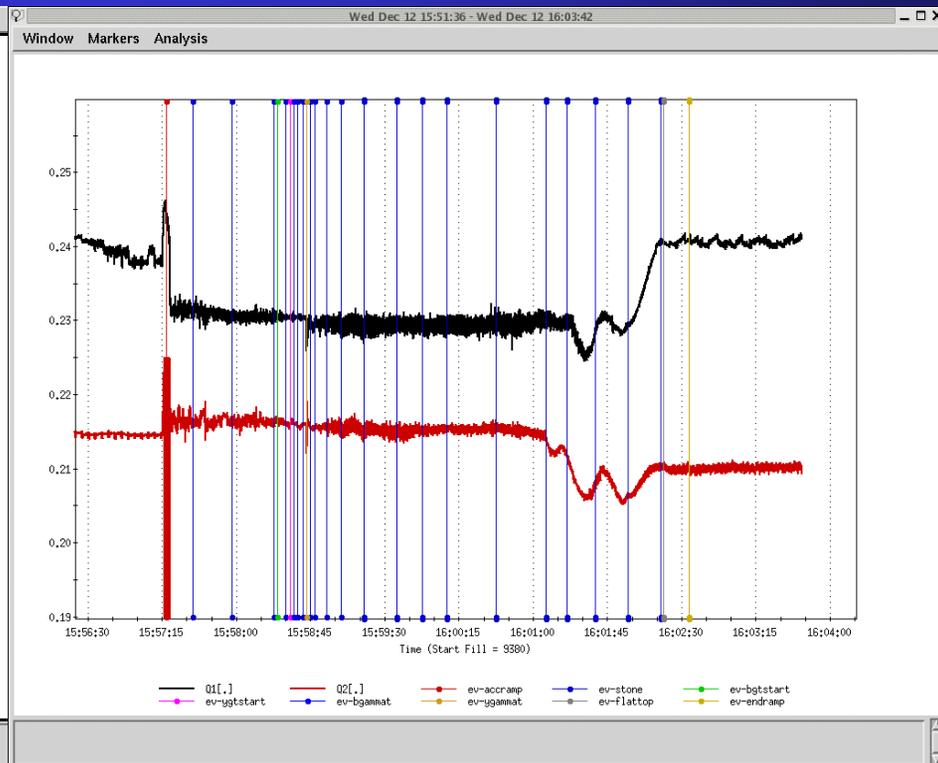
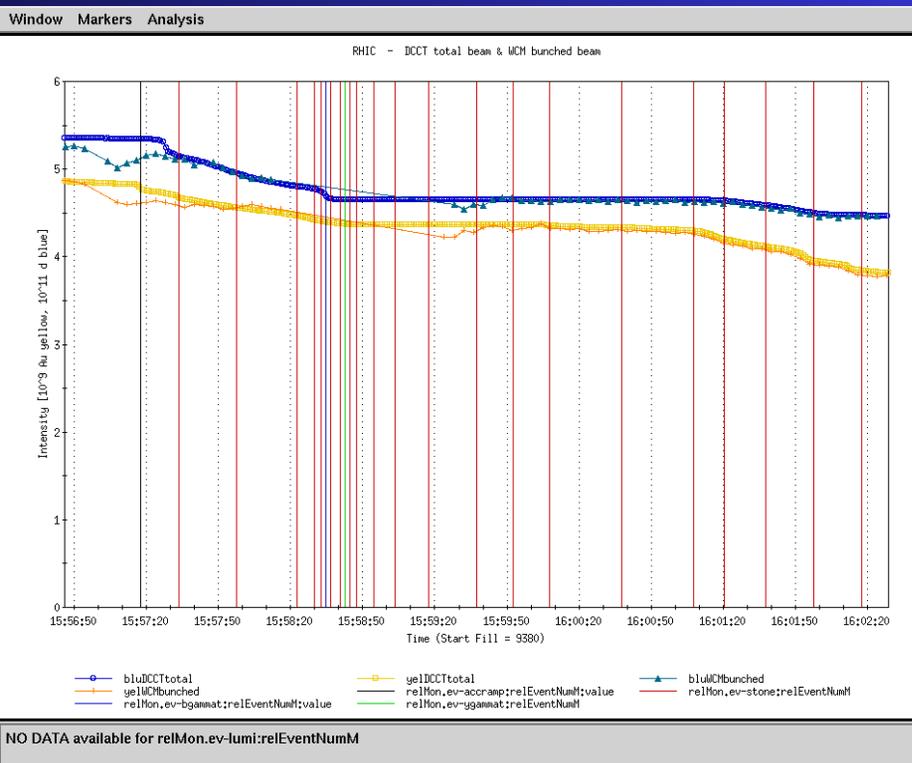
With beam: ramp 3 - feedback



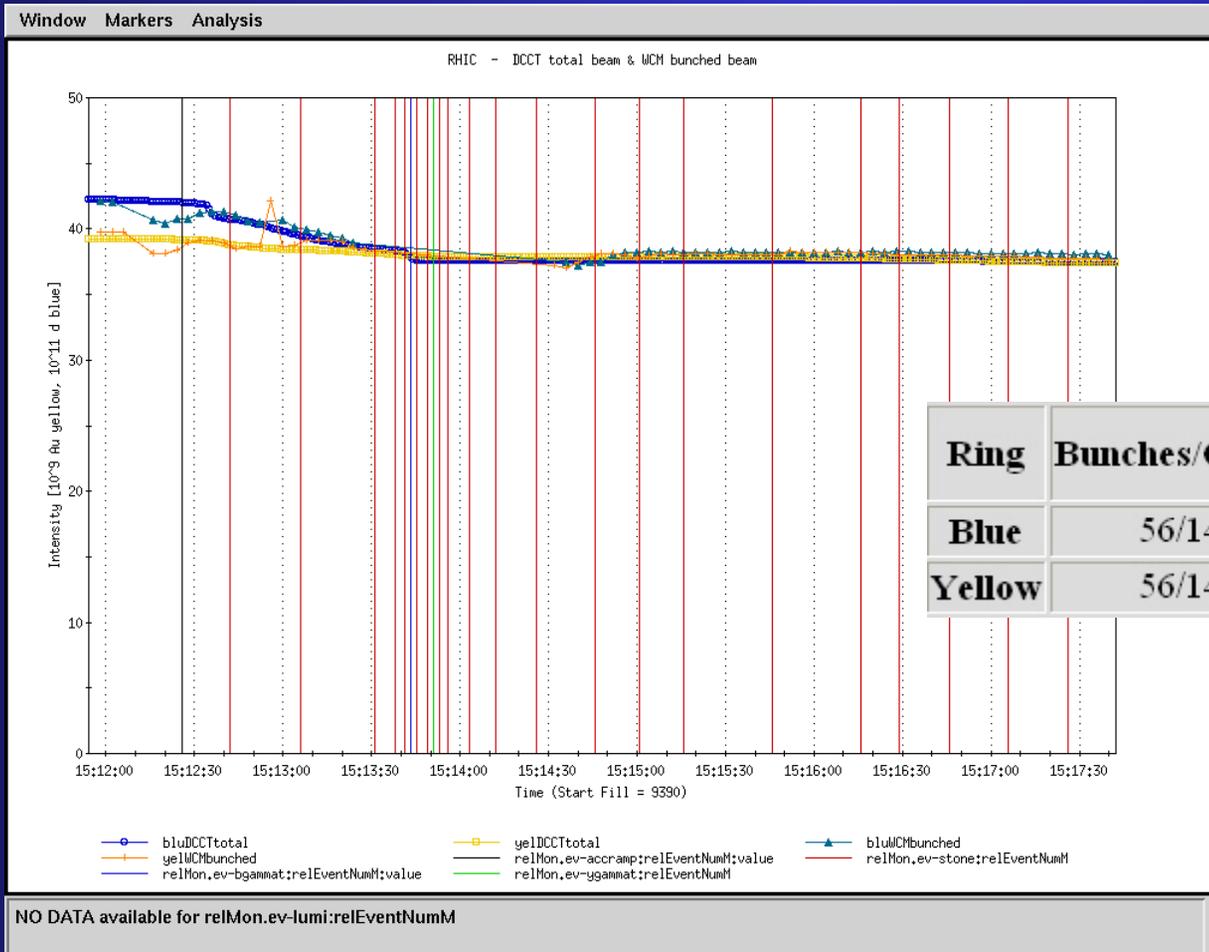
- ❖ Kept orbit correction and guesses for coupling corrections
- ❖ Almost got there (excursion attempt on 1 skew PS....)

RAMP4: replay + interpolation

æ 15:42 Larry has set up replay for us; if we replay yellow, we'll get the feedback ramp up to about t230, then we'll interpolate down to the store stone. Coupling changes put into store stone. Big changes. We are replaying to t230, then the ramp will linearly interpolate to these store settings. -TJS, Fulvia, Larry Hoff, et al

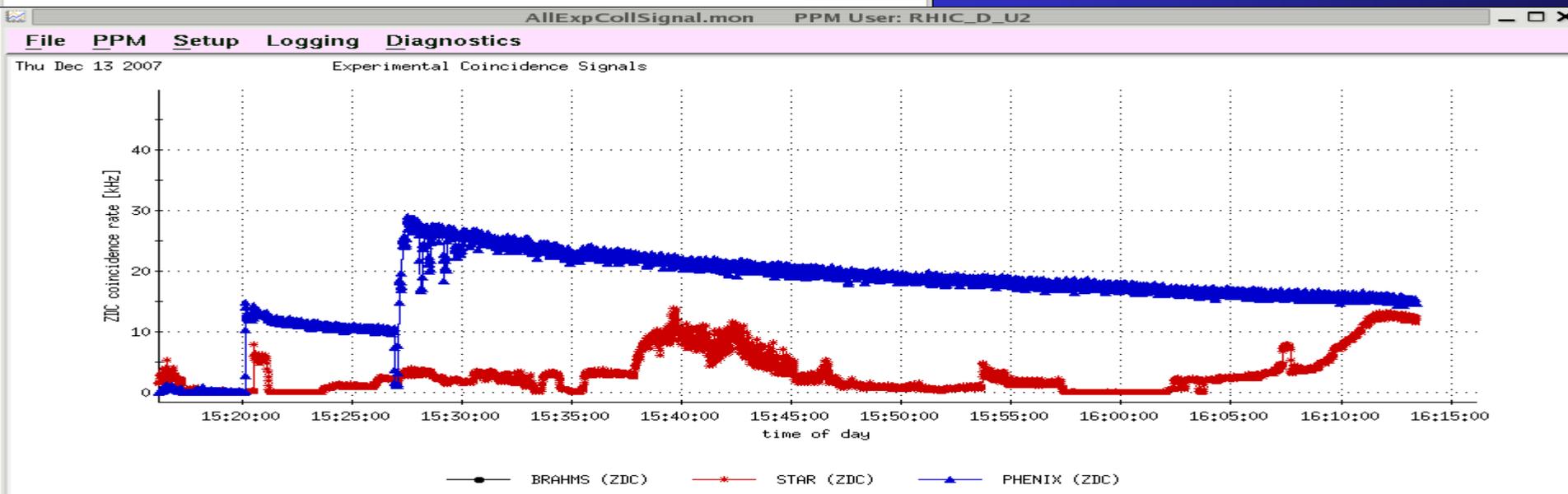
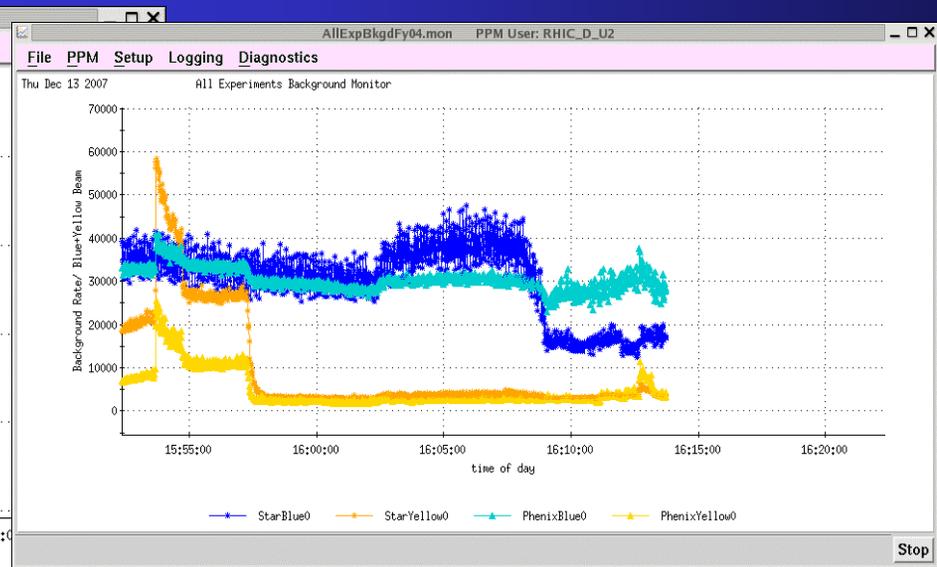
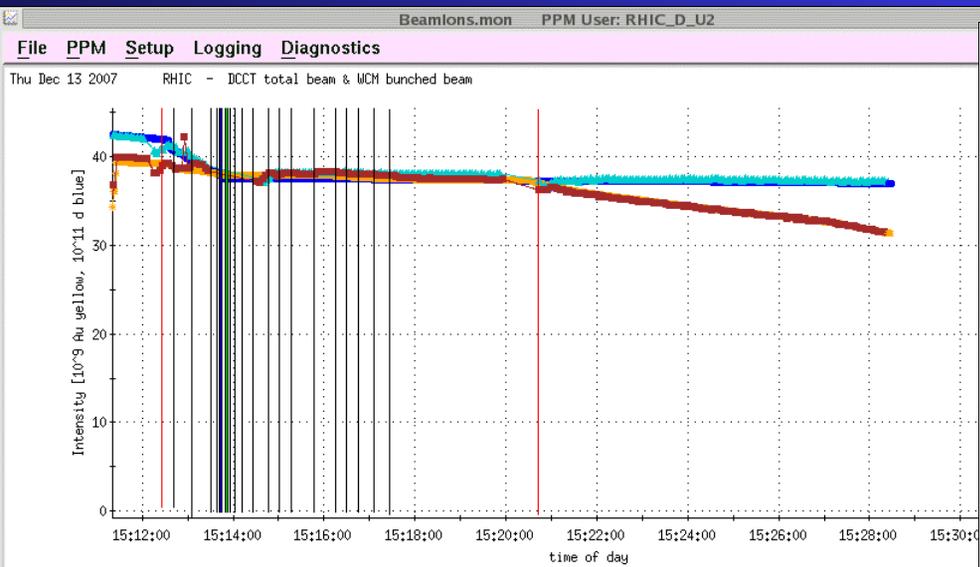


Physics-like ramp (56x56)



æ 15:20 Blue ramp efficiency: 89.1%, Yellow ramp efficiency: 95.6% -tape

Collision set-up, collimation



Plan for today & tonight - DRAFT

DAY- development

Data taking for **dAu82** → ramp tuning offline for tonight

Load **Au81** (yellow squeeze)

- ❖ Physics ramp (87x 1-1.1e)
- ❖ Verify yellow lifetime, rates
- ❖ Improve collimation → *OPERATIONS if successful*

EVENING - APEX

Load **Au82** (yellow + blue squeeze)

- ❖ Check/refine PS ramp tuning if necessary
- ❖ ramp 6x6 (feedback if possible), ramp development
- ❖ store tuning, steering, measure optics
- ❖ Physics ramp: rebucketing, steering, collimation
- ❖ STAR, Phenix taking data → *OPERATIONS if successful*

