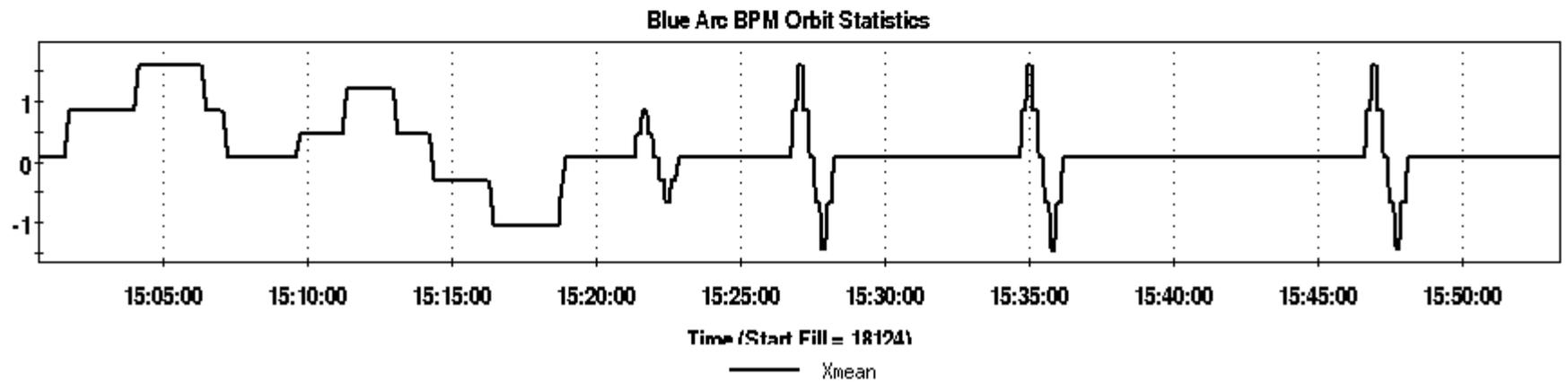
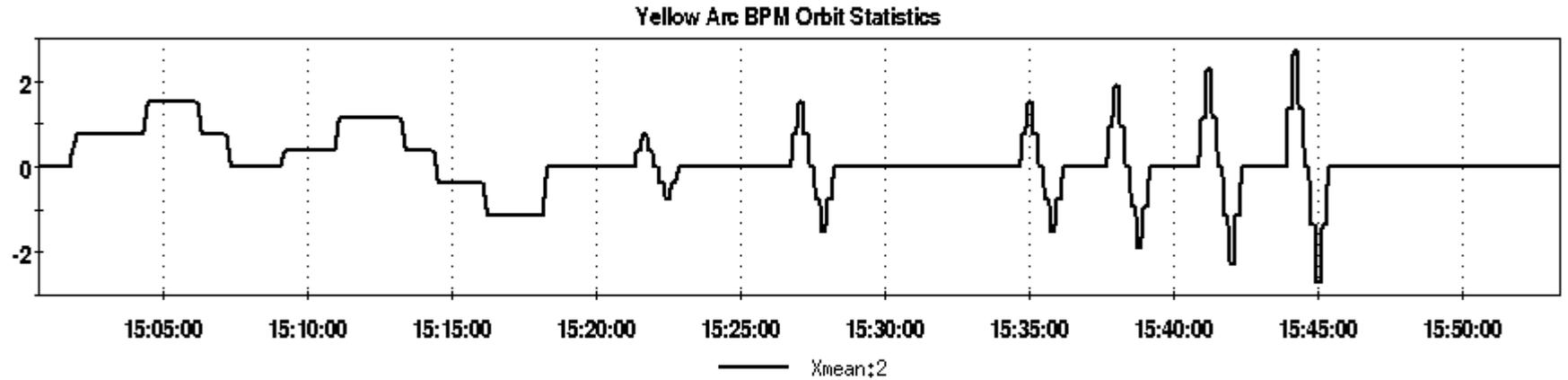
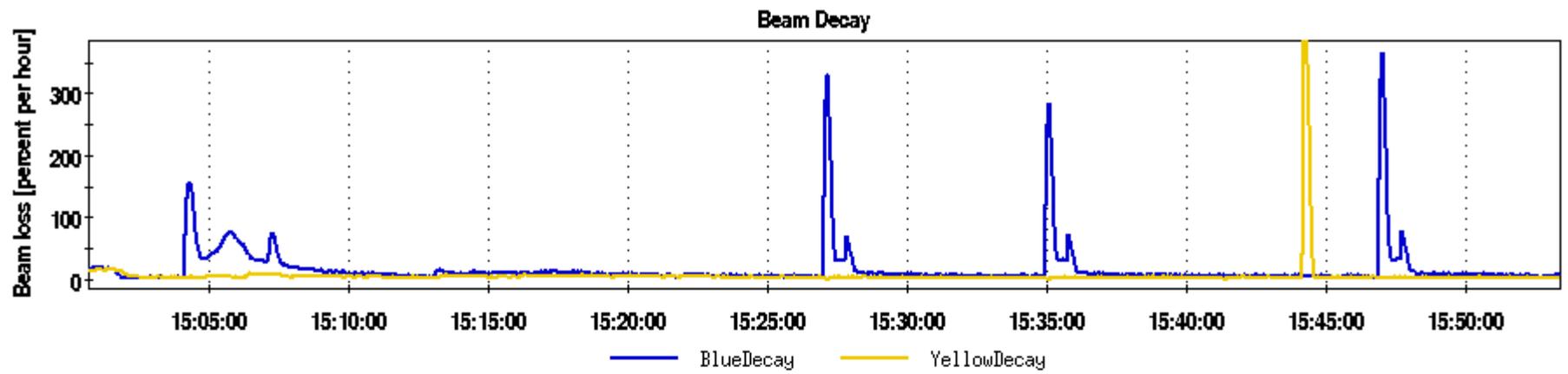


Momentum Aperture Measurement

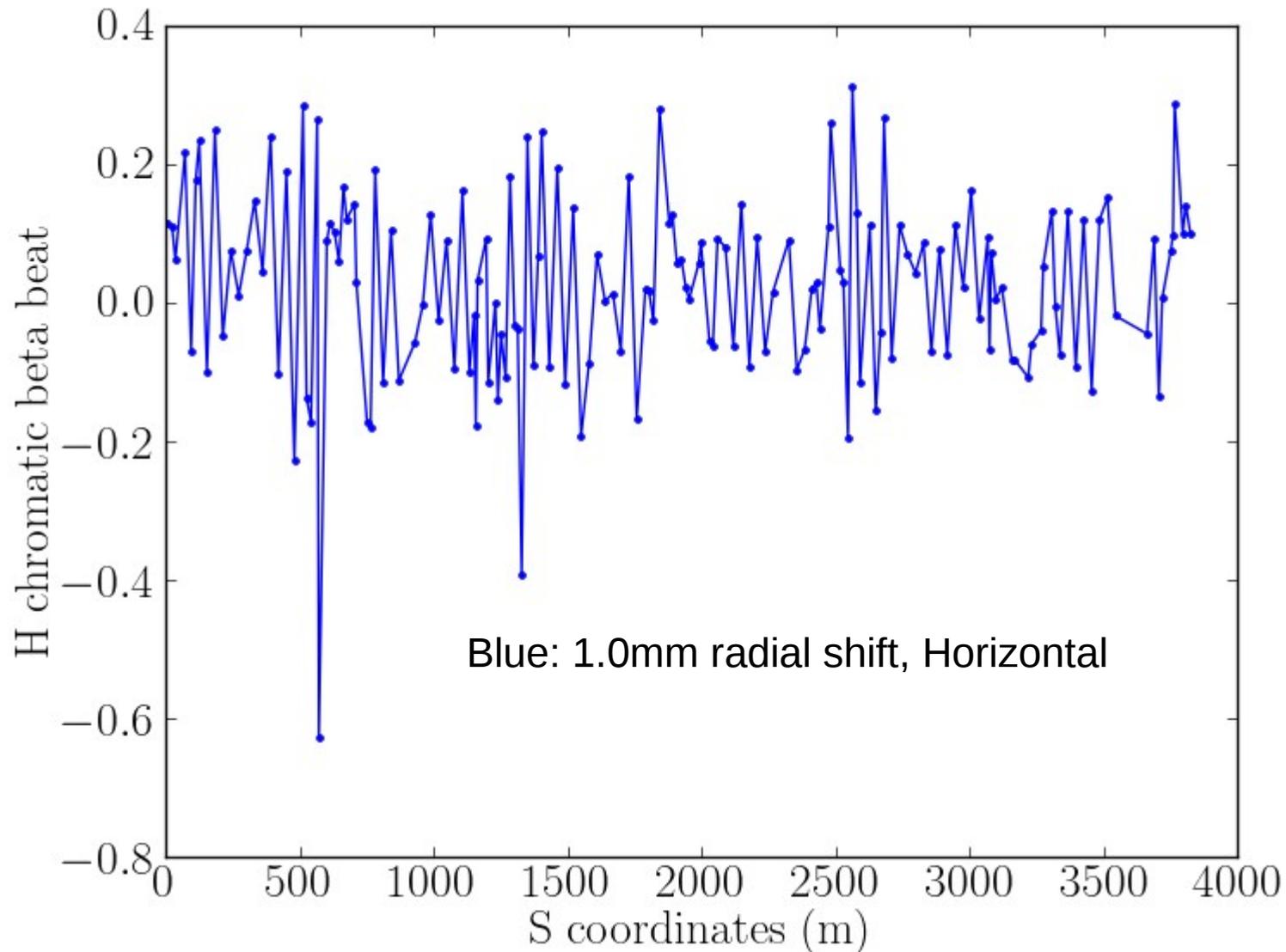
Al, cait, chuyu, grd, Mei, Michiko, Yun

General

- 1) Totally 2 hours beam time
 - 1 ramp with 12*12 bunches, Fill #18124
 - only with Au14-v0 ramp, no re-bucketing
- 2) Measured beta function in Blue ring
- 3) Measure off-momentum beta-beat
 - radial shifts: 9 points (dp/p_0)
- 4) Measure momentum aperture in both rings
 - together dispersion and chromaticities measured
- 5) Applied gradient corrections in Blue and measure

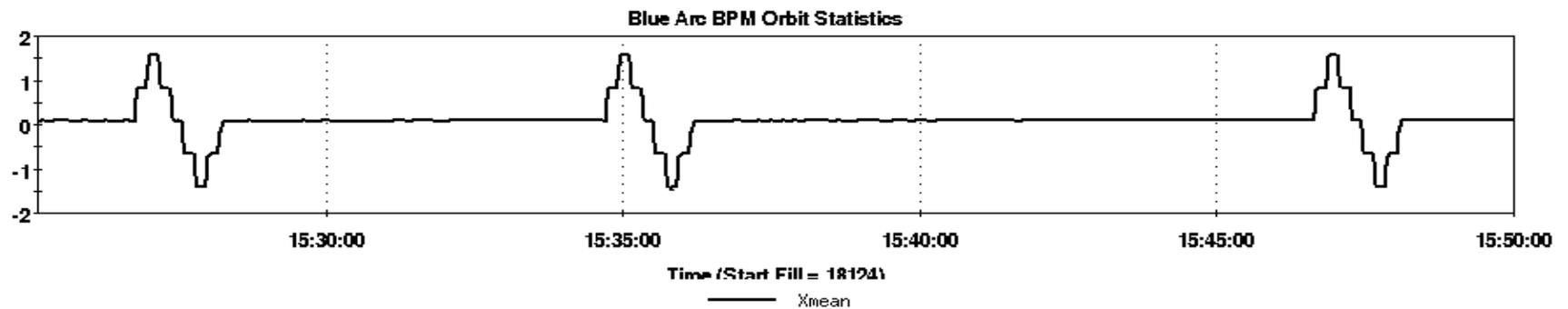
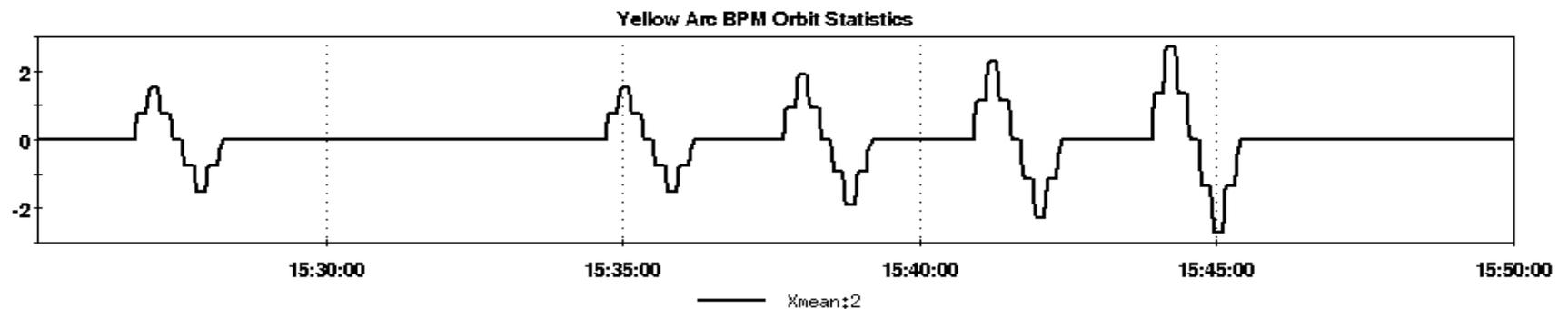
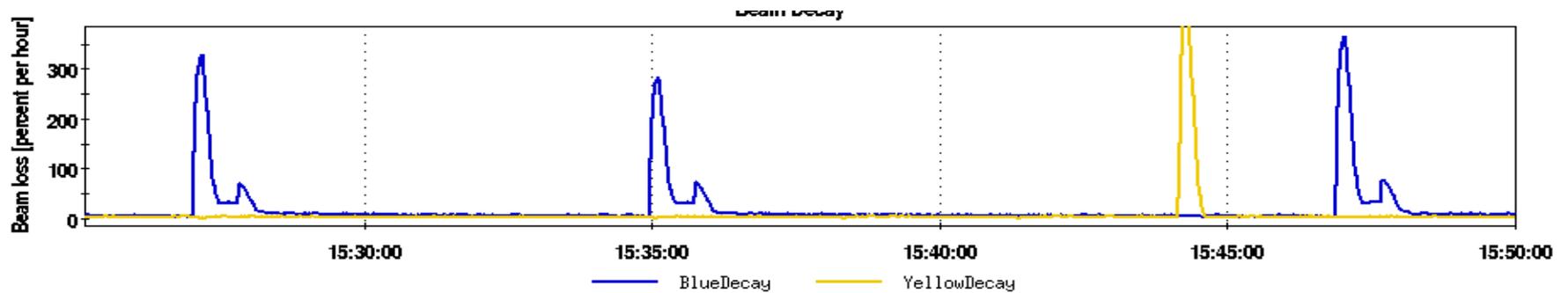


Off-momentum beta-beat



Data processing is under way

Momentum Aperture



Blue ring: 1.0mm (asked), 1.5mm (measured) . $(dp/p)_{\max} = 0.9e-3$
Yellow ring: 1.5mm (asked), 2.7mm (measured) . $(dp/p)_{\max} = 1.4e-3$

Summary & Plan

1. Momentum aperture measured.

Yellow same as 2012 measurement

Blue smaller than 2012 measurement

→ locate where the loss was

→ improvement in Blue

→ apply Q'' corrections

2. Continue data processing of off-momentum beta-beat measurement.

→ $d\beta/d\delta$ along the ring

→ $d\beta/d\delta$ at IPs

→ correct them