KEKB Shift Report Date: 2007/12/1(Sat)

Day Shift: Yoshida (K); Noguchi, Watanabe, Fuke (M); Igarashi (B)

Knob Scan & Larger Simplex

予定

- 1. Horizontal Offset
- 2. Crab Tilt (R2/R4)
- 3. Larger Simplex

Peak \mathcal{L} / G-Ratio : 13.548 × 10³³ cm⁻²s⁻¹ / 90 %

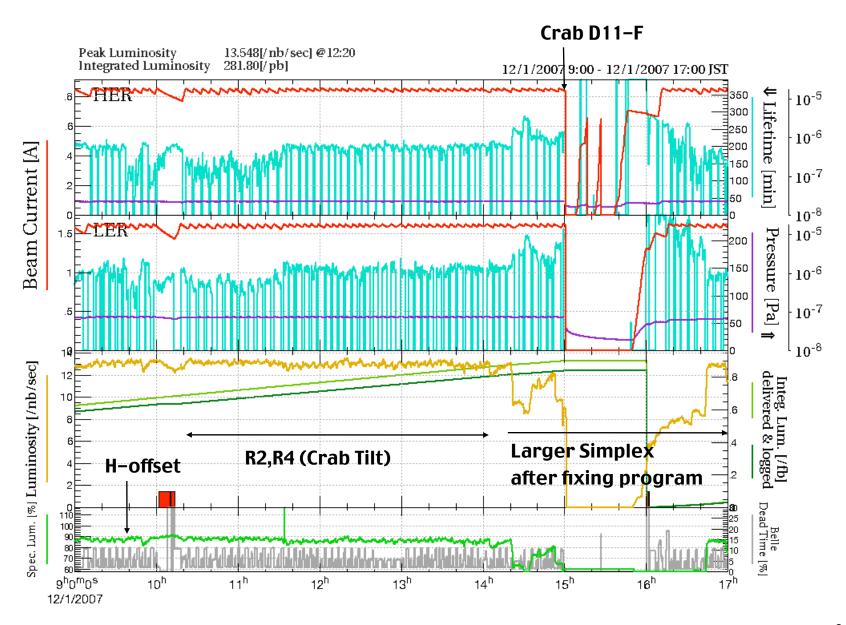
Shift \mathcal{L} : 281.8 pb⁻¹

Beam Current : LER 1620 mA / HER 850 mA

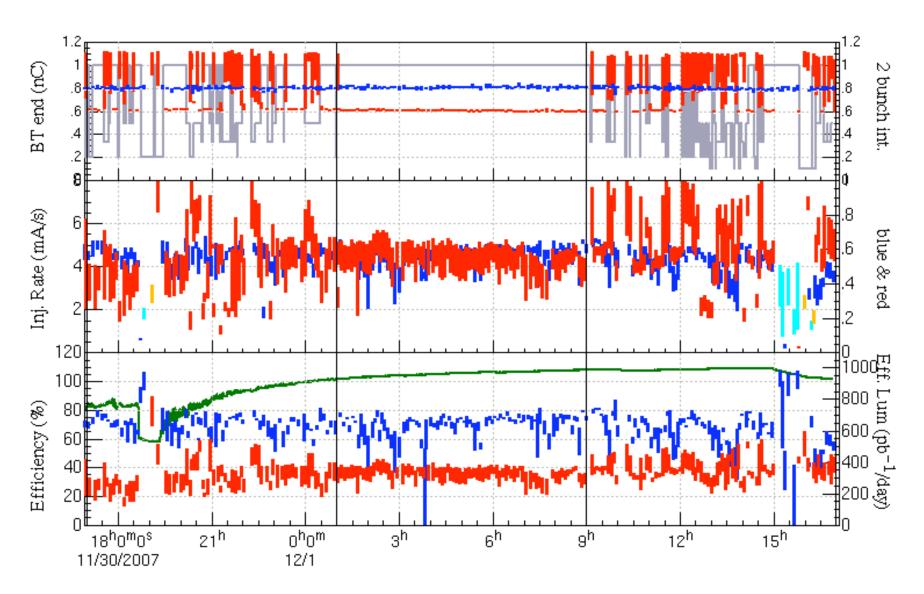
Fill pattern: 3.06 spacing, 1 trains, 1584+1 bunches

Aborts: LER_{only}: 0 / HER_{only}: 2 / Both: 1

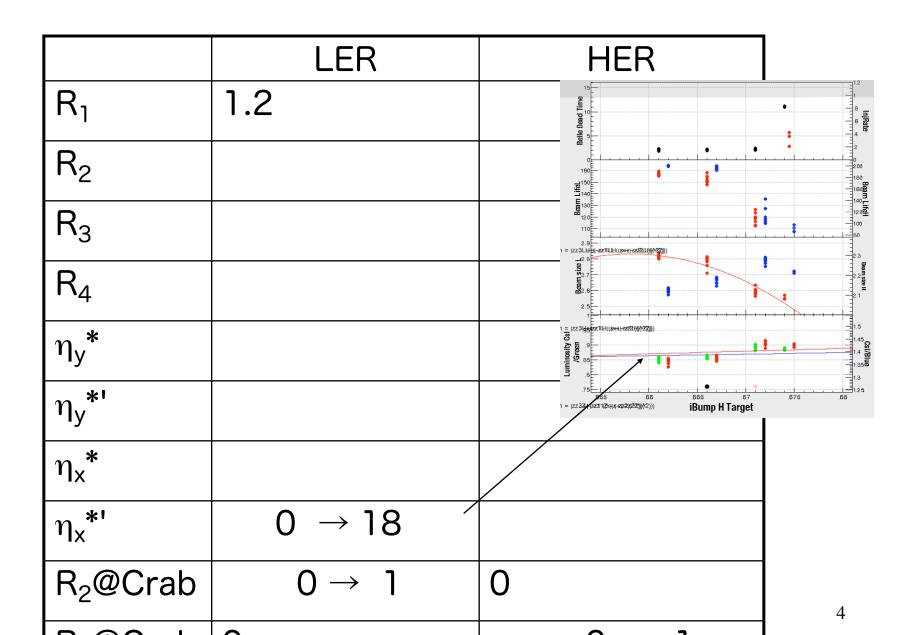
Shift Summary

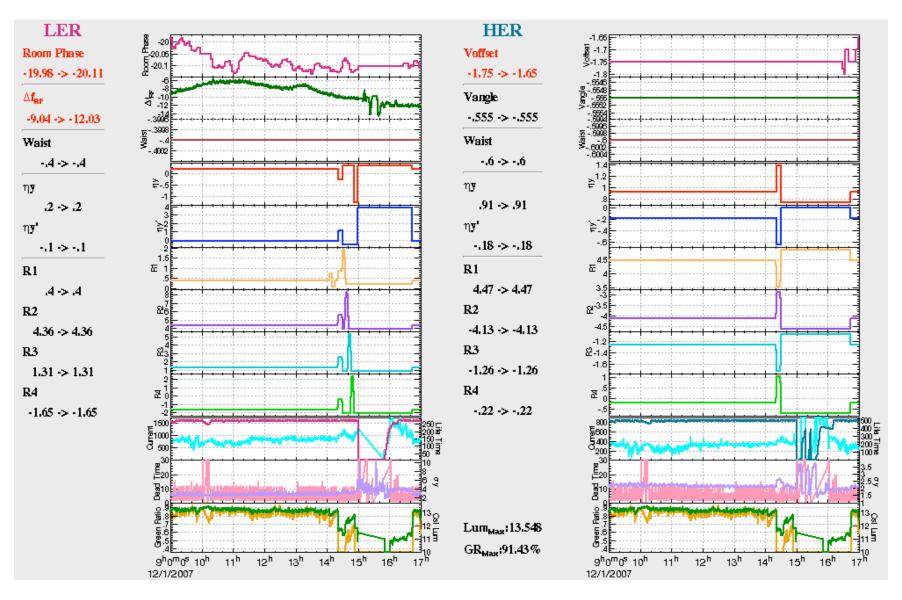


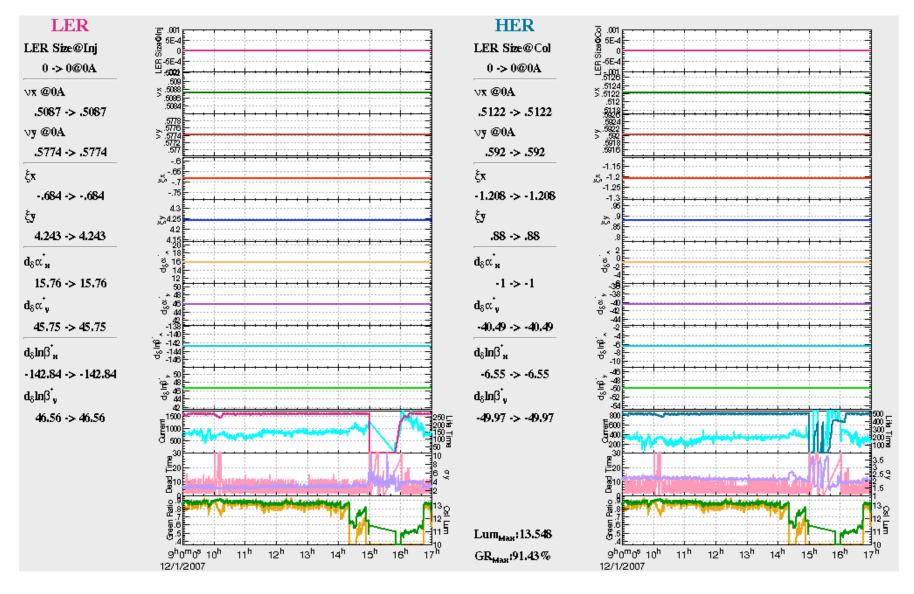
Injection Summary

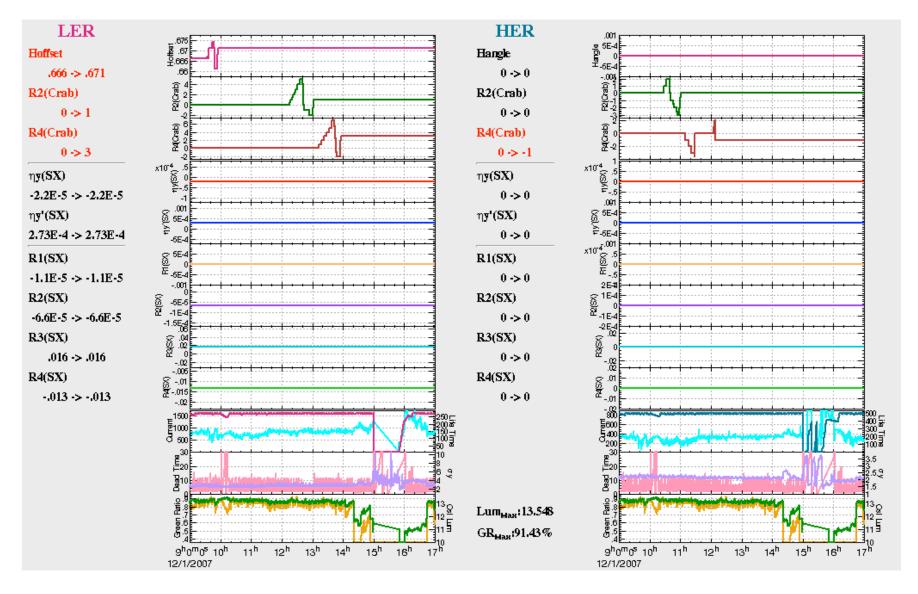


Tuning Items





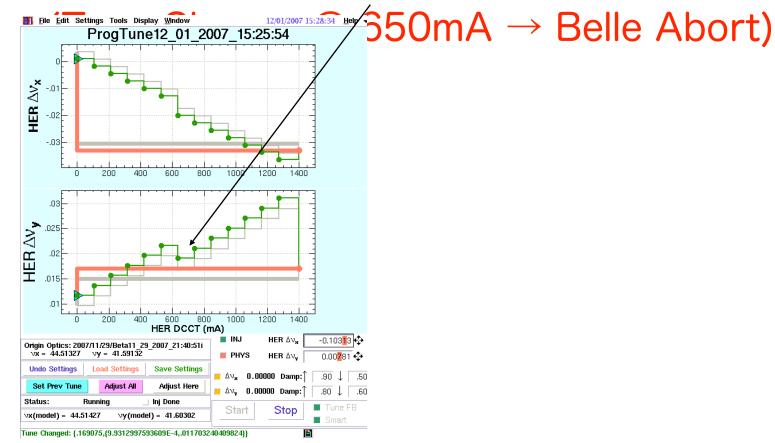


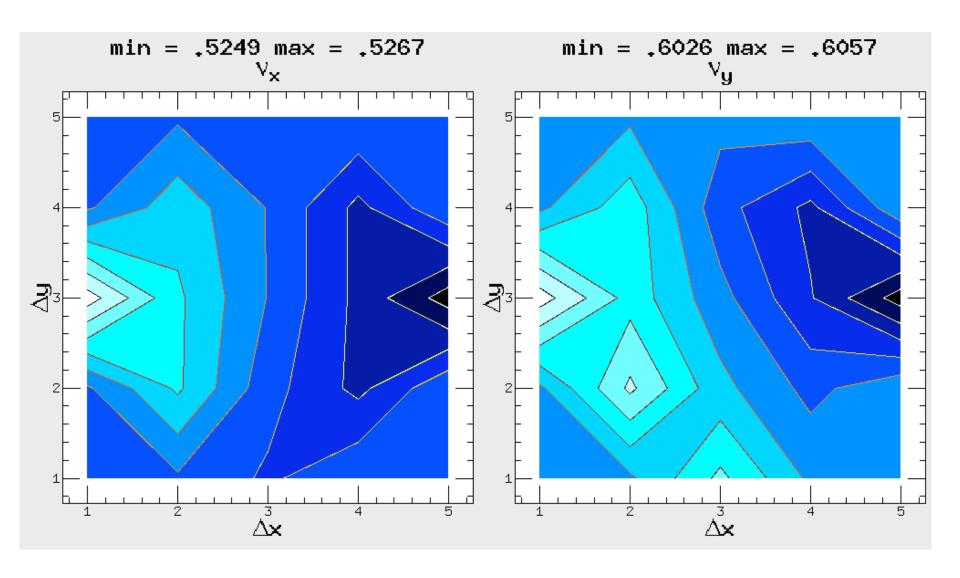


Comments

Troubles

- 1. 15:00 HER Abort (Crab D11-F) → LER Abort
- 2. 15:16 / 15:26 HER Abort







KEKB Shift Report Date: 2007/12/1(Sat.)

Evening Shift: Y.Yamamoto, Suetsugu (K); M.Tanaka, Ohkubo

Simplex scan proceeded steadily, but not yet converged...

Plan

1. Continue simplex knob scan (Luminosity max. mode)

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Peak \mathcal{L} / G-Ratio : 13.399 × 10<sup>33</sup> cm<sup>-2</sup>s<sup>-1</sup> / 89 %
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Shift \mathcal{L} / Day \mathcal{L} : 284.3 pb<sup>-1</sup> / 912.5 pb<sup>-1</sup>
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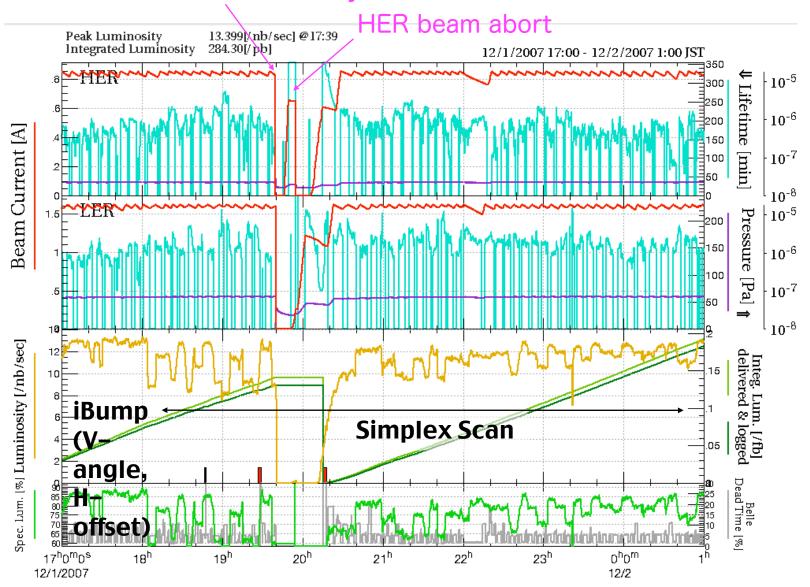
Beam Current : LER 1620 mA / HER 850 mA

Fill pattern: 3.06spacing, 1 trains, 1584+1 bunches

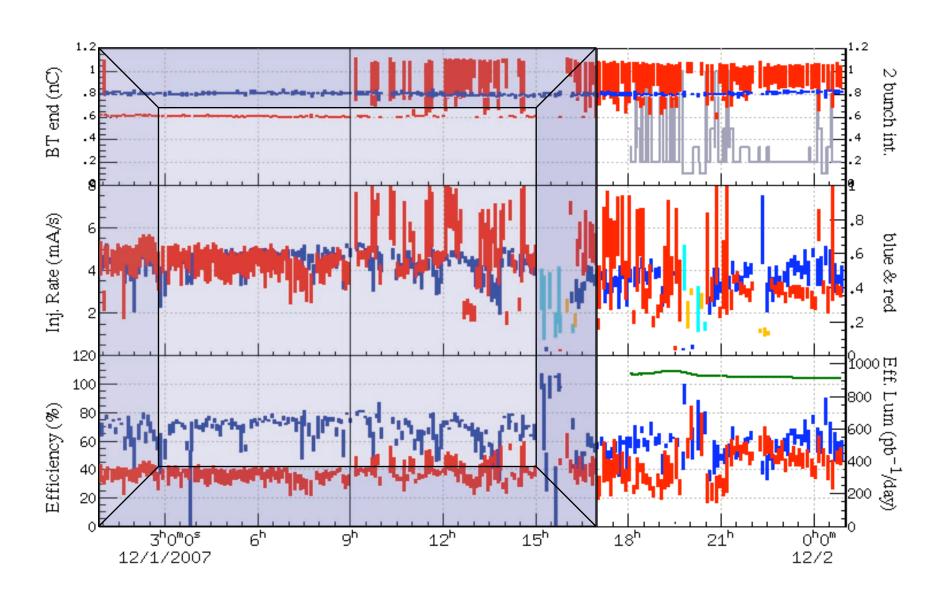
Aborts: LER_{only}: 1 / HER_{only}: 2 / Both: 0

Shift Summary

HER beam abort followed by LER

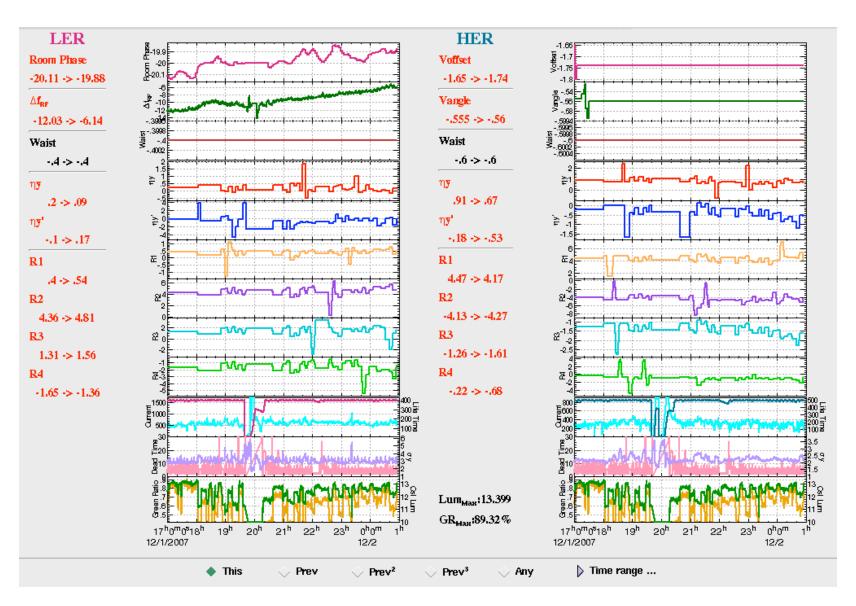


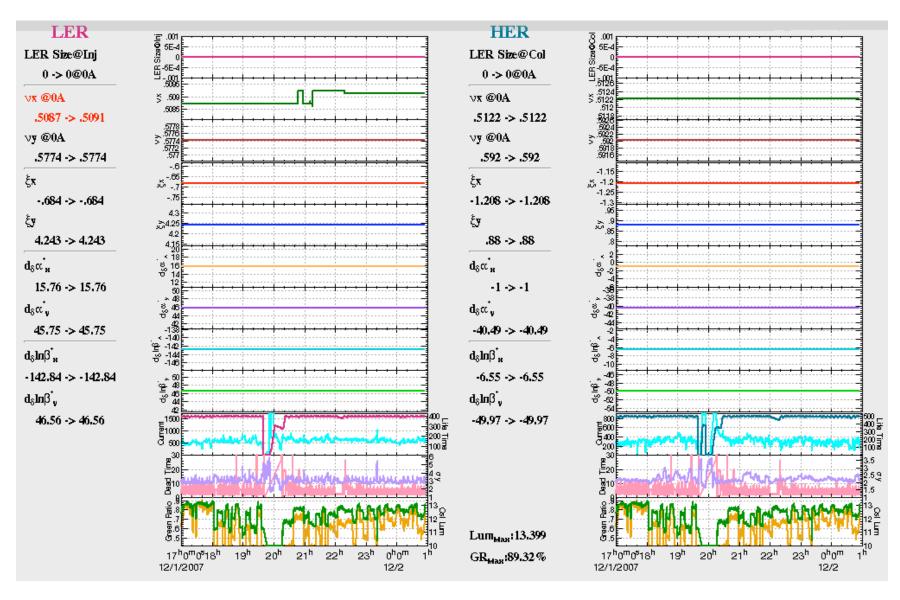
Injection Summary

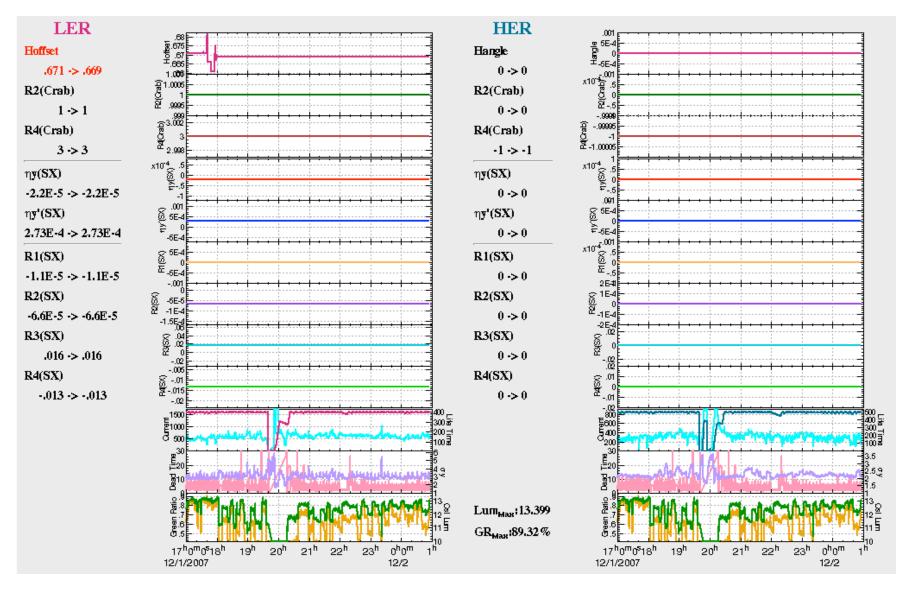


Tuning Items

- Simplex Scan in Luminosity maximize mode
- LER H-Tune +0.0004; to fill bunches at the head of bunch train. Little change in luminosity.



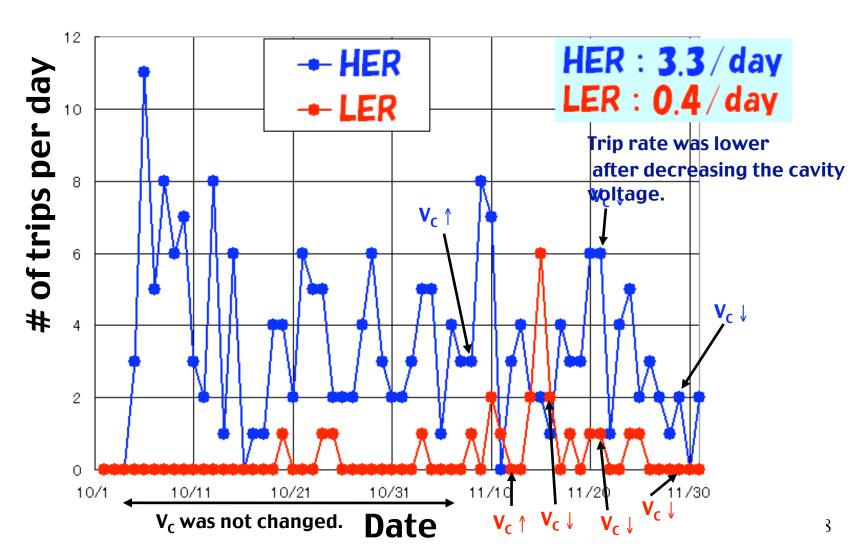




Comments

1. Trip rate for Crab cavities is dependent on the cavity voltage.

of Trip Counts for Crab Cavity in 2007 Autumn



Troubles

- 1. 19:39 HER Beam Abort; HER crab cavity break down (Pressure burst in cavity).
 - The beam abort seemed to induce LER beam abort just few second later.
- 2. 19:55 HER Beam Abort; D11-D cavity break down (Discharge in cavity).

Operationに関する感想、提案など



KEKB Shift Report Date: 2007/12/2(Sun)

Morning Shift: Shibata (K); Aoyama, Shimodomae (M); Hazumi (B)

HER Abort Kicker Thermometer Trouble

Plan

- 1. Simplex Knob Scan (Lumi. Max. mode) \bigcirc
- 2. Knob 1 Scan ×

```
Peak \mathcal{L} / G-Ratio : 13.668 × 10<sup>33</sup> cm<sup>-2</sup>s<sup>-1</sup> / 90 %
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Shift \mathcal{L} / Day \mathcal{L} : 244.0+\alpha pb<sup>-1</sup> / 000.0 pb<sup>-1</sup>
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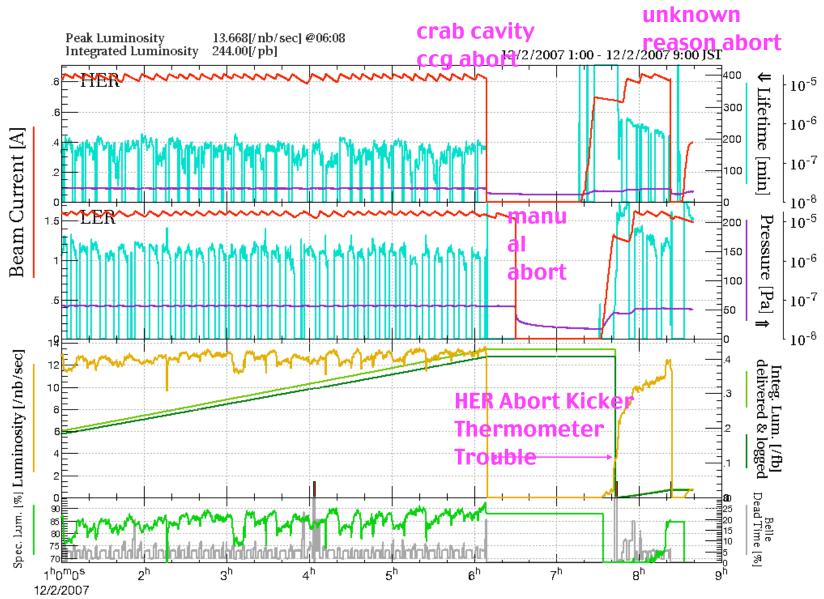
Beam Current : LER 1620 mA / HER 850 mA

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Fill pattern: 3.06 spacing, 1 trains, 1584+1 bunches
```

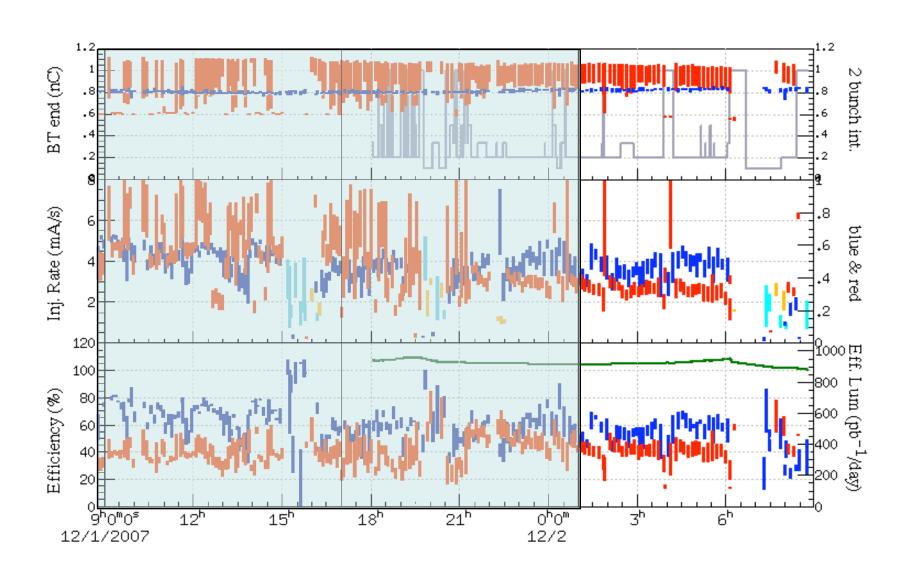
Aborts: LER_{only}: 1 / HER_{only}: 2 / Both: 0

manual crab cavity ccg

Shift Summary

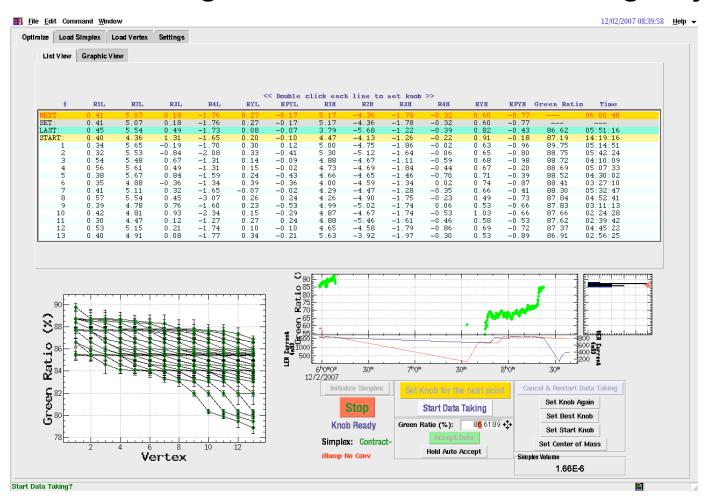


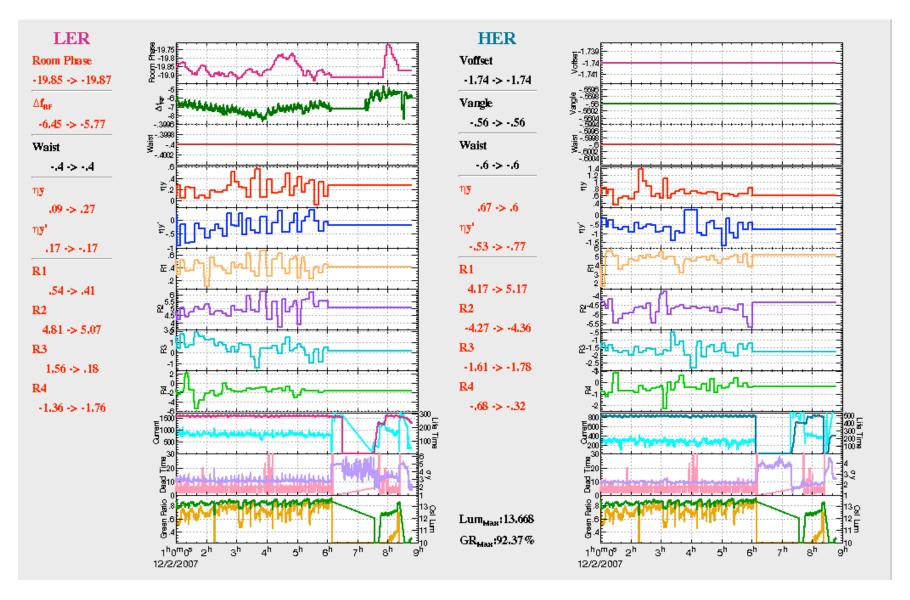
Injection Summary

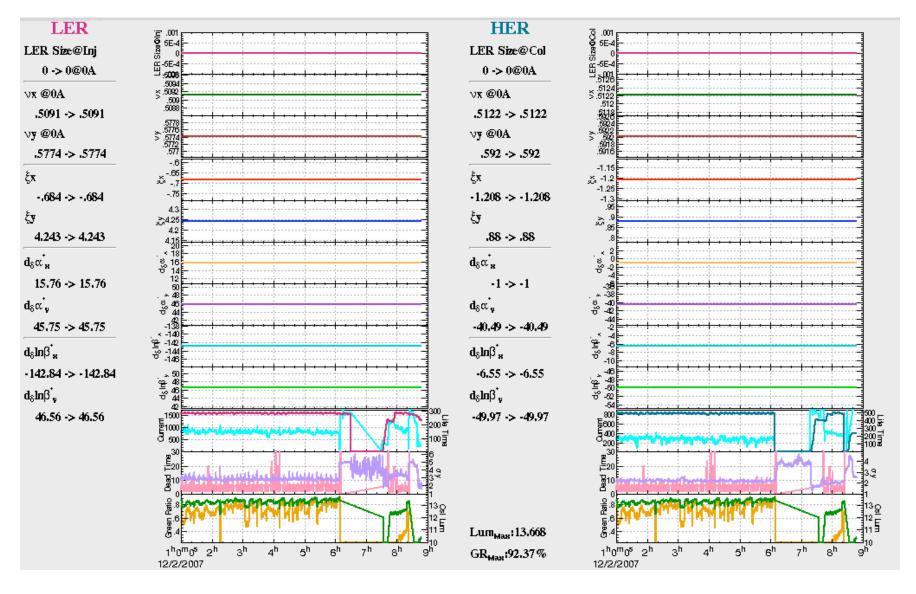


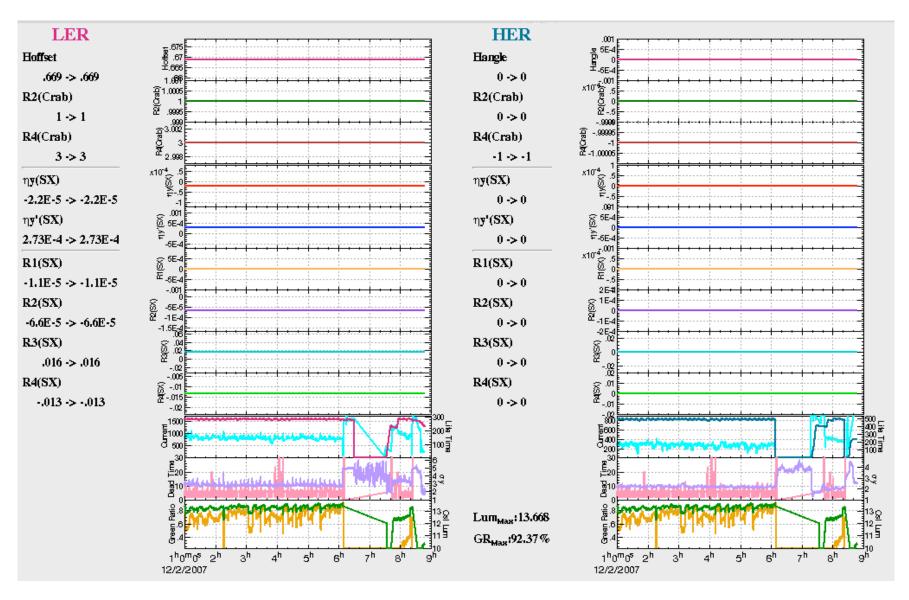
Tuning Items

- Simplex Scan in Luminosity Maximize mode
 - It seems that green ratio has not converged yet.









Comments

Troubles

- 1. 6:08 HER Crab D11F Cavity CCG Abort
- 2. HER Abort Kicker Thermometer Trouble
 - After HER Crab Abort "Ceramic Temp Alarm AKH1_2_3" was given.
 - Thermometer of AKH1_2_3 said the temperature was 9.9x10³⁷ Degree.
 - The beam abort signal could not be reset, so we could not restart physics run.
 - We contacted with Kikuchi_san and Mimashi_san, and asked how to handle it.
 - According to their instruction, we entered KEKB tunnel and checked the control panel of the abort kicker cooling water system, but we could not solve this problem.
 - Since the flow rate of the cooling water was

Troubles

- 1. 8:31 HER Abort
 - unknown reason

- 2. ZHQF4E_14 Set Failed (TimeOut)
- 3. ZHQC5LP_1 Rejected (RangeOut)
- 4. BPM D01-D12, LC1-8 Delayed

Operationに関する感想、提案など

