KEKB Shift Report Date: 2007/11/29(Th)

Evening Shift: Nakanishi, Ikeda(K); Asai, Kawasumi(M); Higuchi(B)

Physics run was started again smoothly.

Plan

- 1. Optics correction
- 2. Collision tuning (iBump, waist, simplex)

```
Peak \mathcal{L} / G-Ratio : 11.391 ×10<sup>33</sup> cm<sup>-2</sup>s<sup>-1</sup> / 77.5 %
```

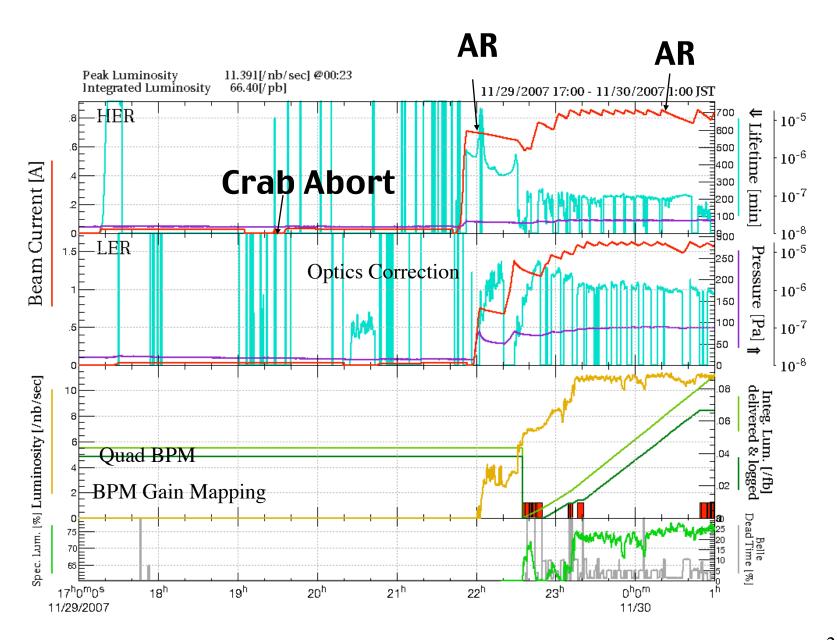
```
Shift \mathcal{L} / Day \mathcal{L} : 66.4 pb<sup>-1</sup> (w/o ECL)/336.4 pb<sup>-1</sup>
```

```
Beam Current : LER 1620 mA / HER 850 mA
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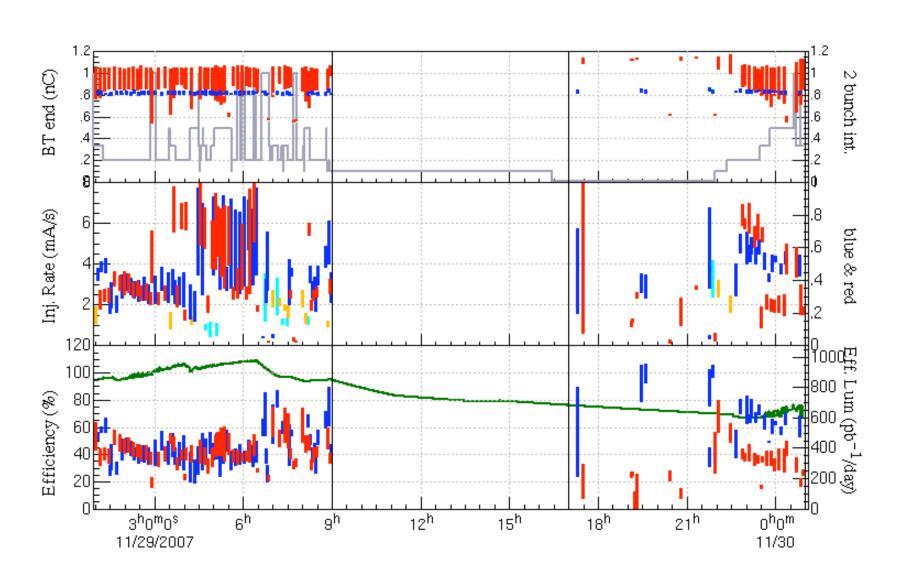
```
Fill pattern: spacing, trains, 1584+1 bunches
```

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

Shift Summary

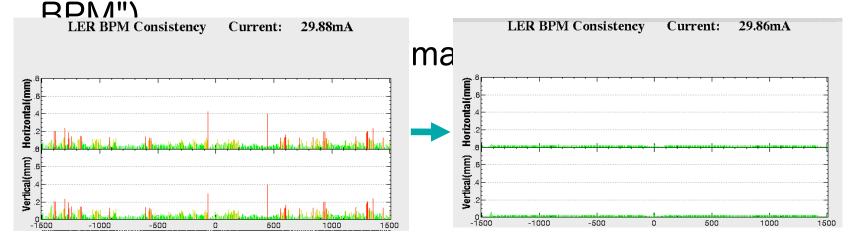


Injection Summary

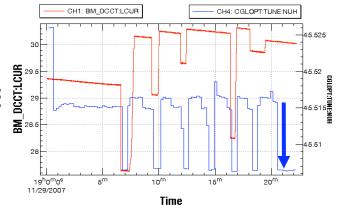


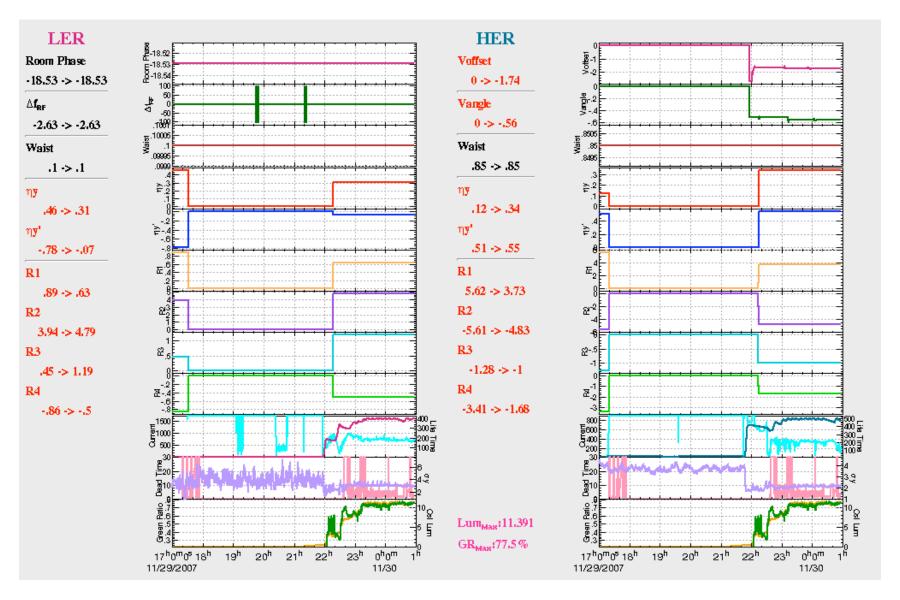
Tuning Items

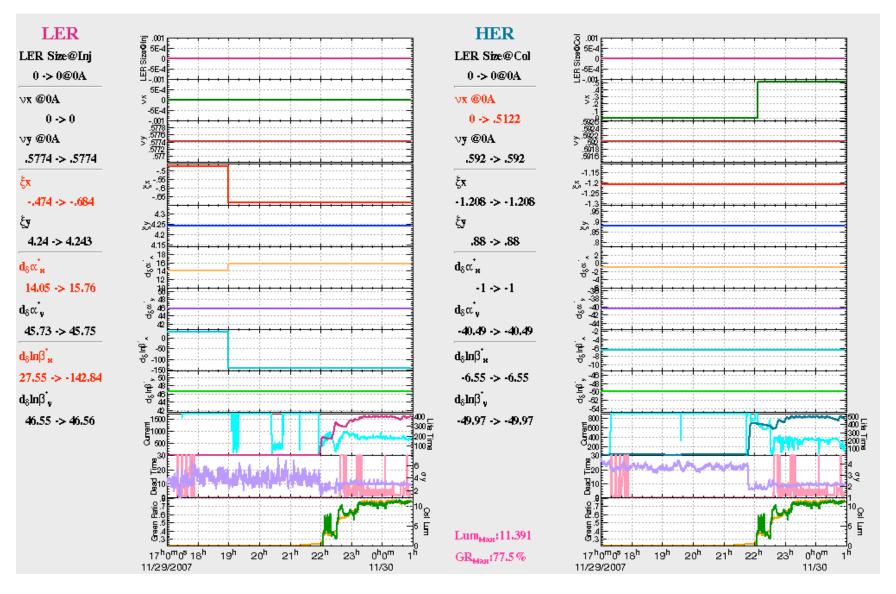
- BPM gain mapping (Masuzawa, Tejima)
- Beam based alignment (called "quad

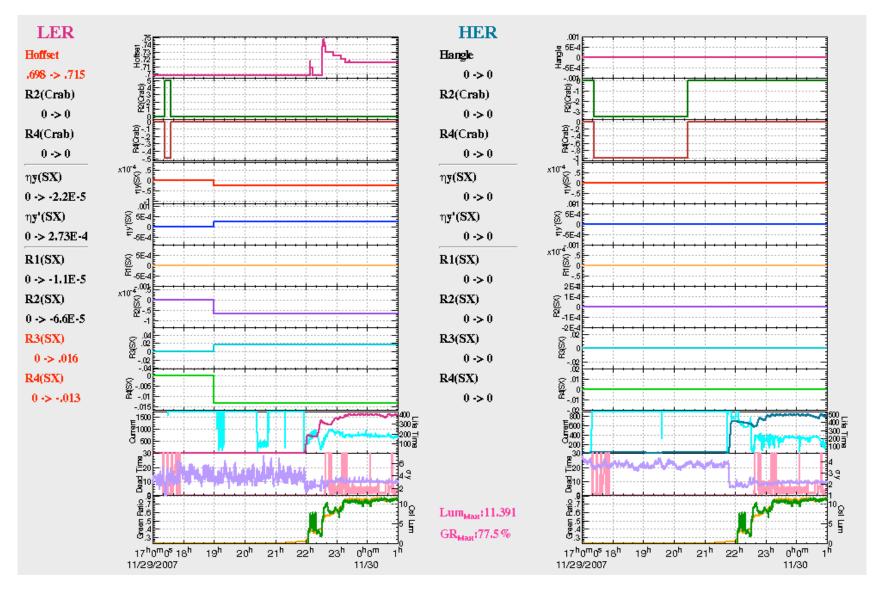


- Set SX-mag current (chosen us method)
- Measure the X-Y coupling,









Comments

- 1. D7A V_cavity monitor cable was disconnected. It was fixed. (Akai 17:45)
- 2. AR inj. (22:00, 00:20)

Troubles

- 1. 19:05 HER abort (Crab break down)
- 2. Belle DAQ (ECL) trouble. Vertex position data was not available.



KEKB Shift Report Date: 2007/11/30(Fri)

Morning Shift: Yokoyama(K); Aoyama, Shimodoumae(M); Tajima(B)

Frequent HER Aborts & Low life time

Plan

1. Collision tuning (waist, simplex, tune, IP knob, ...)

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Peak \mathcal{L} / G-Ratio : 12.223 ×10<sup>33</sup> cm<sup>-2</sup>s<sup>-1</sup> / 75 %
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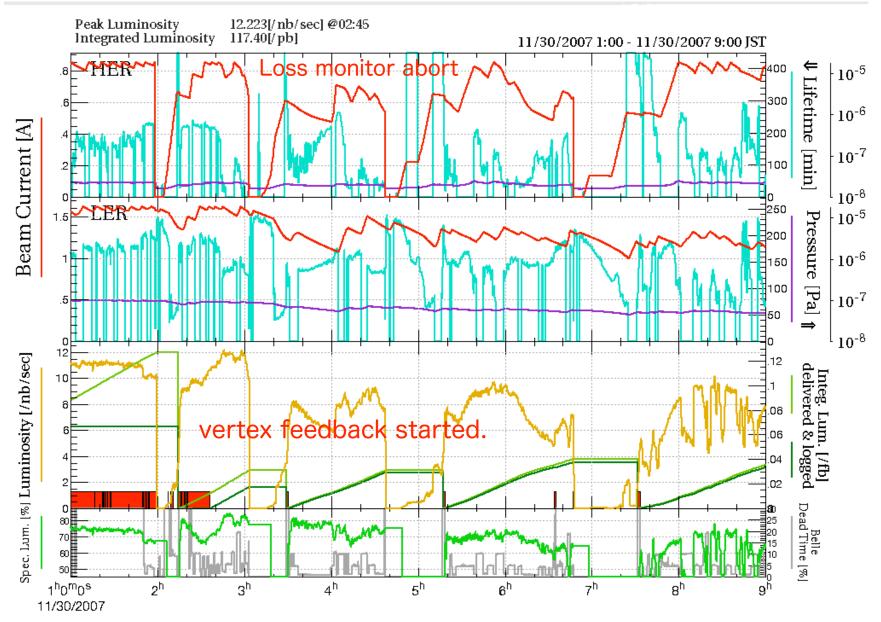
```
Shift \mathcal{L} / Day \mathcal{L} : 66.4 pb<sup>-1</sup> (w/o ECL)/ *** pb<sup>-1</sup>
```

Beam Current : LER 1620 mA / HER 850 mA

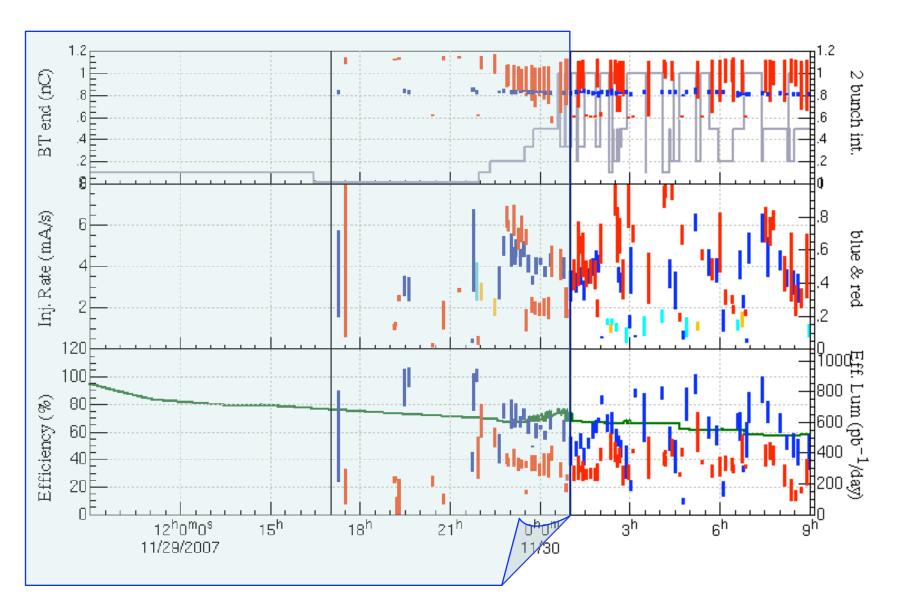
```
Fill pattern: spacing, trains, 1584+1 bunches
```

Aborts: LER_{only}: 0 / HER_{only}: 4 / Both: 0

Shift Summary

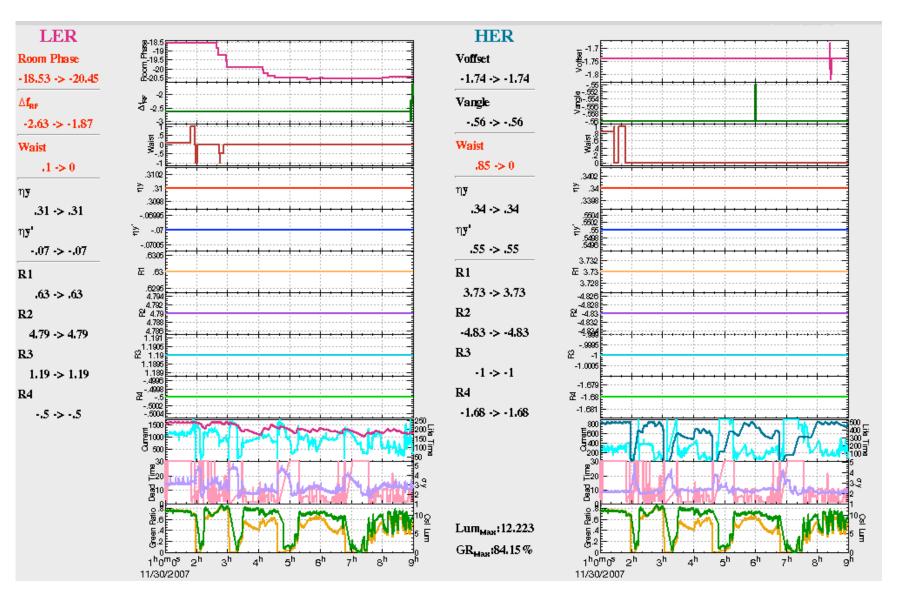


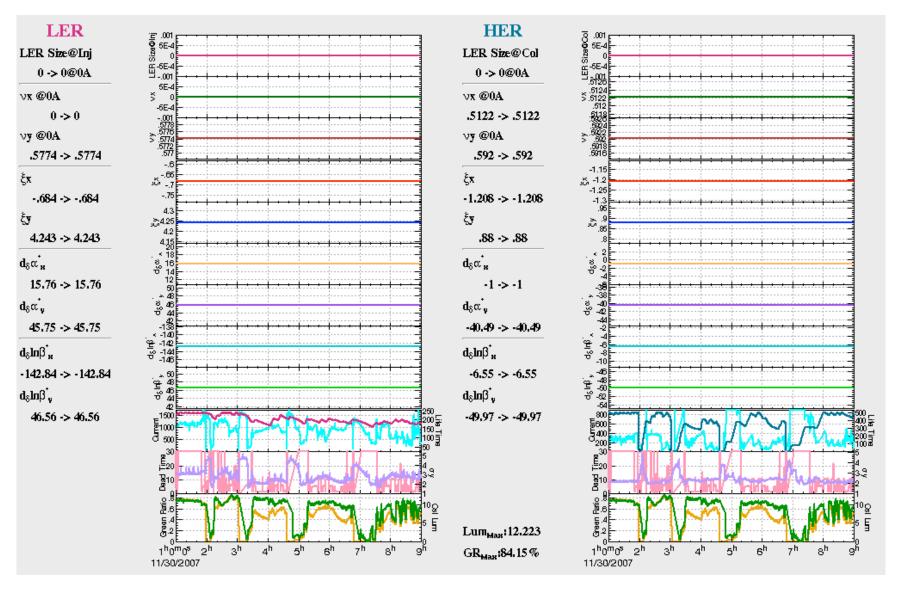
Injection Summary

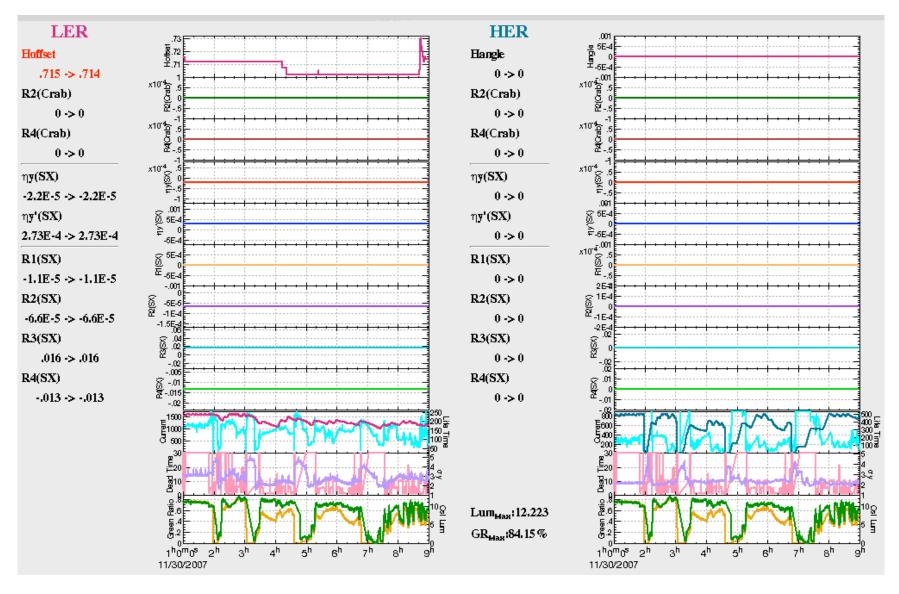


Tuning Items

waist







Comments

- 1. Belle Calorimeter trouble (status error of electronics, "Fast-Bus") has been still remained
 - They have not found the reason, yet.
 - Anyway, they don't know this is "real" problem or not
 - > to be checked with data

- 2. 2:40 Vertex position information was resumed.
 - Belle data taking is necessary for vertex

Troubles

- 1. 1:58 HER Beam Abort (Loss Monitor D10-1)
- 2. 3:00 HER injection rate & life time were too low (-> down to 5 min) after LER injection.
 - Then (3:03), HER abort was happened (Loss Monitor D10-1)
 - -> Set previous knob parameters and tried to find appropriate tune value and masks, but it couldn't be found. And then HER abort (4:37) was happened again.
 - The reason is unknown, vertex feedback? After it started, life became low.
- 3. 3:37 YEL505 (radiation monitor) was alarmed.
- Beam Injection was inhibited for 20 min.
 - All beam request off. No beam request for KEKB.
- 4. 6:58 YEL505 (radiation monitor) was alarmed.

