

## Minutes of the 63rd "ILC-CLIC e+ studies" meeting

Date: 7th (Mon.) April, 2016, 22:00 Jp (Time slot (c'))  
(c')22:00(Jpn), 16:00(Ukr), 15:00(CET), 8:00(US-IL), 6:00(US-CA)

A part of Attendees (whom Omori was able to hear the voices):  
Eugene(NSC-KIPT), Mikhailichenko(Cornell), Andriy(Hamburg),  
Sabine(DESY), Song(IHEP), Wei(ANL), Takahashi(Hiroshima),  
Yokoya(KEK), and Omori(KEK)

### Agenda:

1. Mini-workshop of joint CRWG and CFS/e+ groups: Yokoya-san
2. The source session at the Santander WS: Wei-san

### Presentations and Materials:

[http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20160407/  
20160407-miniWS-agenda-v2-0.pdf](http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20160407/20160407-miniWS-agenda-v2-0.pdf)

[http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20160407/  
20160407-ecfa-lc-2016-update.pdf](http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20160407/20160407-ecfa-lc-2016-update.pdf)

### Summary of the discussions:

1. Mini-workshop of joint CRWG and CFS/e+ groups:

Yokoya-san explained the plan of the mini-workshop of joint CRWG and CFS/e+ groups.

The ILC Central Region Working Group (CRWG) was formed November 2015 to discuss about the machine downstream of the main linacs, including electron and positron sources, the transfer lines to the damping rings, RTML, BDS and the interaction region. Since then the CRWG had several meetings on line. Now it is time to summarize all the works so far and make a plan towards the ECFA workshop in Spain starting at the end of May.

For this purpose, the mini-workshop is planned at KEK on April 19 and 20.

The possible topics will include,

- Positron production region
  - target maintenance
  - radiation shielding
  - electron/photon dump
  - auxiliary positron source  
(Note: UND source only. E-driven source not included.)
- Beam dumps
  - Main beam dump

- tune-up dump
- 10Hz operation
- BDS
- Commissioning issues
- Personnel protection system
- Machine protection system
- Tunnel cross-section in the BDS region
- etc.

The emphasis will be on the CFS issues related to these systems.

The session directly relates to the positron source design is "16:00-18:00 in Japan(\*)" of 19th.

(\* 9:00-11:00 in Central Europe and 0:00-2:00 in California)

The detail of the time table (tentative) is shown in "20160407-miniWS-agenda-v2-0.pdf".

Remote connection will be prepared.

## 2. The source session at the Santander WS:

Wei-san explained the agenda of source session at the Santander WS.

Please look at "20160407-ecfa-lc-2016-update.pdf".

We have totally 9 hours for the source WG.  
The allocated time slots for source sessions are "May 31st Morning" and "June 3rd All day".

We will make presentations and discussions of each R/D issues. In addition, we will make discussions with CRWG people and CFS people. The discussions of CFS issues of the positron source will be important.

Reported by T. OMORI

The date of the next meeting is in the middle of May.  
The exact date will be decided later.

The time slot is (bn')  
(bn')15:15(Jp), 9:15(Ukr), 8:15(CET), 1:15(US-IL), 23:15\*(US-CA)  
(\* In US-CA, it is the previous day)

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