

Minutes of the 40th "ILC-CLIC e+ studies" meeting

Date: 18th July (Thu.), 2013, 15:00 Jpn (Time slot (b'))
b') 15:00(Jpn), 9:00(Ukr), 8:00(CET), 1:00(US-IL), 23:00*(US-CA)
(* In US-CA, it is the previous day)

A part of Attendees (whom Omori was able to hear the voices):
Eugene(NSC-KIPT), Sabine(DESY), Wei(BNL), Wanming(BNL),
Steffen(CERN), Song Jin(IHEP), Kuriki(Hiroshima),
Urakawa(KEK), and Omori(KEK)

Agenda:

1. Upcoming workshops : Omori
2. Simulation study (ILC 300 Hz source) : Omori
3. Pendulum Target R/D (ILC 300 Hz source) : Omori

Presentations:

<http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20130718/20130718-UpcomingMeetings.pdf>

http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20130718/20130718-Omori_300HzSimulation.pdf

http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20130718/20130718-Omori_Target.pdf

Summary of discussions:

1. Upcoming workshops:

- (a) POSIPOL 2013, 4-6 September 2013, ANL
<https://indico.hep.anl.gov/indico/conferenceDisplay.py?confId=114>
Registration is on going.
- (b) LCWS 2013, 11-15 November 2013, U of Tokyo
<http://www.icepp.s.u-tokyo.ac.jp/lcws13/>
18 July: Registration opened
15 October: Deadline for early registration

2. Simulation study (ILC 300 Hz source):

Omori reported the recent activity on the simulation study of the 300 Hz conventional e+ source for ILC.

Please look at "20130718-Omori_300HzSimulation".

The team have started the detailed simulation study.

The members are:

Sabine(DESY), Friedrich(DESY), Andrai(U. of Hambrug),
Wanming(ANL), Wei(ANL), Takahashi(Hiroshima),
Kuriki(Hiroshima), Urakawa (KEK), Yokoya(KEK),
and Omori(KEK)

About 2 years ago, they did simulation study.

The result was published: NIM A672 (2012) 52-56.

Now they try to make more detailed simulation study
from the target to DR.

They set up the dedicated meeting for simulation.

They had two meetings so far.

* 1st meeting: July 5th

- (a) Confirm understanding about the assumptions
and parameters.
- (b) The new issue (Yokoya problem):
Bunch length in the S-band booster linac
- (c) The direction of the study

* 2nd meeting: July 10th

- (a) Confirm who is using which method in the
simulation. What part is included in each
simulation?
- (b) Which kind of the simulation should be done?
- (c) How to share the contribution to the simulation?
- (d) Necessary data to be prepared.
- (e) Others

Minutes of the meeting are available.

http://www-jlc.kek.jp/~omori/300Hz_e+

They just have started the preparation of the study,
no results yet.

3. Pendulum Target R/D (ILC 300 Hz source):

Omori reported the update of the target studies
for the conventional e+ source.

Please look at "20130718-Omori_Target.pdf".

KEK workshop completed the fabrication of the model

with bellows seal. The model will be used for the lifetime test of the bellows.

KEK team will start long term test soon, after some adjustments.

As the first stage, the test will be done in air. Then, if no damage is observed, the second stage test will be done in vacuum.

Reported by T. OMORI

The date of the next meeting will be decided later. The candidate dates are 9th, 12th, and 13th August.

Time slot is (c')

c') 22:00(Jpn), 16:00(Ukr), 15:00(CET), 8:00(US-IL), 6:00(US-CA)