

## Minutes of the 27th "ILC-CLIC e+ studies" meeting

Date: February 23rd, 2012

23:00(JST), 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):  
Louis(CERN), Eugene(NSC-KIPT), Andriy(Hambrug), Sabine(DESY),  
Gudi(DESY), Olufemi(?), Wei(ANL), Wanming(ANL), and Omori(KEK)

### Agenda:

1. ACFA-GDE meeting in Korea: Wei-san
2. ILC e+ source shielding issues: Wanming-san
3. Posipol 2012: Sabine-san
4. Posipol 2011 proceedings: Wei-san
5. LC review: Gudi-san

### Presentations:

<http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20120223/target-shielding-1.pdf>

#### 1. ACFA-GDE meeting in Korea:

Wei-san announced ACFA-GDE joint meeting in Korea(KLIC12).

We are going to have KILC12, on 23-26 April 2012, at Daegu, Korea. It is the "Joint ACFA Physics/Detector WS and GDE meeting on Linear Collider".

<http://kilc12.knu.ac.kr/index.html>

We will have two special sessions on ILC e+ source dedicated to the ILC-TDR writing and on ILC costing. We will decide "who write which part". Since US budget situation in the next fiscal year will be very bad, we need to finish ILC-TDR until October.

We also will have other sessions for general R/D issues including CLIC activities.

#### 2. ILC e+ source shielding issues:

Wanming-san reported recent study related in the shielding around the e+ target. The study was calculations and simulations of the radiation.

Wanming-san presented the report written by Wen Yin

of Institute of Physics, Chinese Academy of Science.

Please look at "target-shielding-1.pdf".

According to the report, the radiation level is about 160 mSv/h at 1 meter from the target after 7 days of cooling if there is no shield.

The next step of the study may be a mechanical design.

Wei-san pointed out that the study was important in the view point of cost reduction. We may have possibility to reduce the thickness of the shield. Or we may be able to have no shield. We also have a possibility to employ simplified remote handling, or to employ no remote handling.

Sabine-san pointed out that the study of the shielding around the collimator was important too. The dose on the collimator is even higher than that on the target. She also pointed out that the capability to adjust the position of the collimator was important in the view point of getting the good e<sup>+</sup> polarization. We also need to consider the shielding around the flux concentrator.

Eugene-san questioned why the average energy of 30 MeV of the gamma-rays was used in the calculations/simulations. The energy of the 1st harmonic was about 10 MeV. Wanming-san answered that the existence of the higher harmonics make the average significantly higher than 10 MeV.

### 3. Posipol 2012:

Sabine-san made announcement of Posipol 2012.

POSIPOL 2012 will be held on 4-6 of September at DESY, Zeuthen.

The WS is already posted in ILC-calendar web-page.  
<http://www.linearcollider.org/Calendar>

Web-site is opened (some pages are still under construction).

<https://indico.desy.de/conferenceDisplay.py?confId=5480>

4. Posipol 2011 proceedings:

Wei-san made an announcement.  
Wei-san is now almost final stage of making the  
Posipol 2011 proceedings.

5. LC review:

Gudi-san made announcement of the LC review.

There was a LC forum at DESY on the first week of  
February. Since then people, mainly European  
physicist, is making a summary of the physics case  
for a linear collider. It is the LC review.  
The report is dedicated to physics, it dose not  
include accelerator. So the report is for a  
linear collider in general, it is not for ILC nor  
CLIC.

The report is essentially a summary of the past  
reports written in Europe, America, and Asia.  
The report will be finalized in the end of May.  
Contribution from everyone is welcome.

Reported by T. OMORI

The date of the next phone meeting is March 22nd (Thu.).  
Time slot is (b).

(b) 16:00(JST), 9:00(Ukr), 8:00(CET), 1:00(US-IL), 23:00\*(US-CA)  
(\* In US-CA, it is 23:00 of March 21st)