

## Minutes of the 31st "ILC-CLIC e+ studies" meeting

Date: July 19th, 2012

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

A part of Attendees (whom Omori was able to hear the voices):  
Louis(CERN), Eugene(NSC-KIPT), Peter(NSC-KIPT), Sabine(DESY),  
Friedrich(DESY), Andrei(Hamburg), Olufemi(Hamburg),  
Takahashi(Hiroshima), Urakawa(KEK), and Omori(KEK)

Agenda:

Agenda (tentative):

1. Update on 300 Hz linac : Urakawa-san
2. POSIPOL 2012 : Sabine-san

Presentations:

[http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20120719/20120719-Urakawa\\_300HzLinac.pdf](http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20120719/20120719-Urakawa_300HzLinac.pdf)

### 1. Update on 300 Hz linac:

Urakawa reported the update of the conceptual design of the 300 Hz linac.

Please look at "20120719-Urakawa\_300HzLinac.pdf".  
(Not posted yet, will be posted later.)

The point of the update was change of the design of the short acceleration structure. The short structures has 0.33 m length and is used for beam loading compensation.

In the old design, two short acceleration structure were driven by two of 80MW-klystrons. In total, 76 80-MW klystrons are used to drive 76 short structures.

In the update, Urakawa changed the design of the short structure. He employed smaller aperture of the irises at the downstream part of the structure. This change allowed us to employ 12MW-klystrons for the short structures. We can replace 76 80-MW klystrons by 76 12MW klystrons.

This will enable about 20% cost reduction.

He also pointed out that we have another cost reduction possibilities, for example margins in klystron power and RF guide losses, which are not seriously considered yet.

## 2. POSIPOL 2012:

Sabine-san reported the status of the preparation of POSIPOL 2012.

### \* Program:

We are finalizing the program.

Please look at the timetable in the web-site.

<http://www.desy.de/POSIPOL2012>

We will fix the program soon.

### \* Excursion

Excursion to Berlin is planned. We will make sightseeing in Berlin, will ride a boat, and will take a dinner in Berlin.

### \* Positron group meeting

We will have a one-day positron group meeting after POSIPOL 2012, on September 7th. The main subject will be the 1-TeV-upgrade.

Reported by T. OMORI

We will have no meeting in August.

The date of the next phone meeting is September 27th (Thu.).