

Minutes of the 25th "ILC-CLIC e+ studies" meeting

Date: December 15th, 2011

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), Chehab(LAL/IN2P3), Eugene(NSC-KIPT),  
Peter(NSC-KIPT), Sabine(DESY), Andriy(DESY), Wei(ANL),  
Mike Jenkins(?), Jeff(LLNL), Norbert(CI), Friedrich(DESY),  
Wanming(ANL), Olufemi(?), Valentyn Kovalenko(?),  
Takahashi(Hiroshima), and Omori(KEK)

Agenda:

1. Discussions on the date of POSIPOL 2012 : Sabine-san
2. Status of the target R/D at LLNL : Jeff-san
3. RH, ILC-CLIC collab. & Posipol\_2011 proceedings : Wei-san

Presentations:

There were NO presentations.

1. Discussions on the date of POSIPOL 2012:

We made discussion on the date of POSIPOL 2012.  
It seemed that early September (1-7/Sept.),  
late November, and December were the candidates.  
Weather is not so nice in November and December.

Sabine-san will make a doodle poll.

2. Status of the target R/D at LLNL:

\* Rigaku-seal:

The broken Rigaku-seal was inspected at Rigaku  
company. The company reported that the design  
choice of the material was not correct. Thermal  
expansion of the material caused the failure.  
The company will make the seal with a different  
material choice.

\* Ferrotec-seal:

The Ferrotec-seal was tested at the test stand.  
The rotation test was successful up to 2000 rpm  
for 0.5 hours.

Viscosity of the fluid the Ferrotec-seal was  
different from that of the Rikagu-seal, and  
the outgasing of Ferrotech-seal was expected

to be larger than that of the Rigaku-seal.  
LLNL people is going to analyze the elements  
of the gas. The full test with disk will be  
done in January.

### 3. RH, ILC-CLIC collab. & Posipol\_2011 proceedings:

Wei-san made a report. His subjects were remote  
handling, ILC-CLIC collaboration, and the POSIPOL  
2011 proceedings.

#### \* Remote Handling (RH):

Wei-san visited Beijing to discuss about  
the remote handling issue with the experts of  
IHEP. The experts were working for a 100kW-class  
neutron source. The experts claimed that RH was  
not necessary in the radiation environment of the  
ILC e+ target. It was a good news, if it was true.  
IHEP people is going to perform an experiment  
to test

#### \* ILC-CLIC collaboration:

At Beijing, Wei-san met Daniel-san (Daniel  
Schultte) of CERN. CERN need a help of ILC people  
about the e+ source developments. Daniel-san is  
assisting the e+ source developments, but he is  
not actually working for it. Still CLIC has not  
found the successor of Louis-san.

In order to cure this problem, Daniel-san proposed  
to Wei-san that we have a special session for the  
CLIC e+ source in Posipol 2012.

Louis-san mentioned that CLIC continues to find  
out his successor as responsible for the CLIC  
Main Beam Injector complex including the e+ source  
and also as CLIC convener for the "ILC-CLIC e+  
sources" working group.

#### \* Posipol\_2011 proceedings:

Wei-san made an announcement; the deadline of  
the Posipol\_2011 proceedings is the end of  
December.

Reported by T. OMORI

The date of the next phone meeting is January 19th.

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 January 18th)