

Minutes of the 37th "ILC-CLIC e+ studies" meeting

Date: 18th April (Thu.), 2013, 22:00 JST (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):  
Chehab(LAL/IN2P3), Steffen(CERN), Eugene(NSC-KIPT), Wei(BNL),  
Wanming(BNL), Friedrich(DESY), Andriy(DESY), Gudi(DESY),  
Sabine(DESY), Peter Schuler (CERN), Takahashi(Hiroshima),  
Kuriki(Hiroshima), and Omori(KEK)

Agenda:

1. ECFA LC workshop 2013: Wei-san and Kuriki-san
2. Target studies for the conventional e+ source: Omori

Presentations:

[http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20130418/  
20130418-Omori\\_Target.pdf](http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20130418/20130418-Omori_Target.pdf)

1. ECFA LC workshop 2013:

ECFA LC workshop will be held on 27-31 May at DESY Hamburg.

Wei-san and Kuriki-san called contributions, suggestions  
and proposals for the source/injector session.

Sabine-san suggested that a polarization-source joint  
session.

If you have contributions, suggestions, proposals,  
please send an e-mail to Wei-san/Kuriki-san.

2. Target studies for the conventional e+ source:

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

Please look at "20130418-Omori\_Target.pdf".

The studies are for the 300 Hz truly conventional source  
and are performed by Hiroshima university and KEK.

The requirements to the target are followings.

- \* Tangential speed = 1 m/s
- \* Good vacuum, No contamination
- \* Life time (Mean Time Between Failure)

Two types of targets are under study.

- \* 5 Hz pendulum with bellows seal

\* Slow rotation target with ferromagnetic fluid seal

In the meeting, progress of the 5 Hz pendulum target was reported.

Since the 5 Hz pendulum target uses bellows seal, there is no doubt that it achieves good vacuum and no contamination.

The issues to be tested are speed of movement and life time of the bellows.

A first model was built in the KEK workshop. The model had no bellows seal. The purpose of the model was to test the speed of the movement. 5 Hz and 1 m/s movement with 100 mm stroke was achieved with no problem.

Next step is the life time test of the bellows. KEK workshop will build next model with bellows seal.

Omori also reported that plan of the test of the slow rotation was under discussion with Rigaku.

Reported by T. OMORI

The date of the next meeting is May 21st.

Time slot is (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)