

Minutes of the 30th "ILC-CLIC e+ studies" meeting

Date: June 14th, 2012

15:00(JST), 9:00(Ukr), 8:00(CET), 1:00(US-IL), 23:00*(US-CA)
time slot (b')

A part of Attendees (whom Omori was able to hear the voices):
Louis(CERN), Peter(NSC-KIPT), Sabine(DESY), Friedrich(DESY),
Olufemi(?), Wei(ANL), Wanming(ANL), Takahashi(Hiroshima),
Yokoya(KEK), Urakawa(KEK), and Omori(KEK)

Agenda:

1. POSIPOL 2012: Sabine-san
2. Rotating seal and flux concentrator: Jeff-san

Presentations:

[http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20120614/
20120614-Sabine_POSIPOL2012.pdf](http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20120614/20120614-Sabine_POSIPOL2012.pdf)

1. POSIPOL 2012:

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

Please look at "[20120614-Sabine_POSIPOL2012.pdf](http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20120614/20120614-Sabine_POSIPOL2012.pdf)".

* Webpage exists:

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

* Conference fee: 80 Euro

includes lunch, coffee breaks, dinner

* Accommodation

- Some possibilities in Zeuthen are reserved, please book asap. Please look at the webpage for details. Please tell "DESY" to the hotels.
- No possibilities on-site (DESY hostel is blocked for summer students)

* Excursion

Excursion to Berlin is planned.

2. Rotating seal and flux concentrator:

Jeff-san reported the status of the Rotating seal and the flux concentrator developments in LLNL.

Please look at "[20120614-Jeff_RotSeal_FluxConcent.pdf](#)".

(a) Rotation Vacuum seal:

- (i) The flywheel (real size wheel) arrived from Daresbury.
- (ii) Rotation test in vacuum with the medium-disk was started. The medium-disk has the same weight as the flywheel, but has much smaller size. The medium-disk is a solid disk, it has no spokes.
Ferrotec seal was used. At first, there was a problem at Teflon sleeve for cooling water. The misalignment of the axis was cause of the problem. After realignment, the rotation test was performed successfully.

The pressure was $\times 10^{-x}$ torr with rotation.

Detail analysis (outgassing rate, component of gas,,,) was not yet done.

- (iii) Safety of the flywheel is an issue for operation of the flywheel at LLNL. When we perform the rotation test of the flywheel, we need to install armor plates (1-inch thick steel plates). The armor plates are necessary to prevent fragments penetration in case of accidents. This will be the next step.

(b) Flux Concentrator:

An prototype production of a part of the flux concentrator is ongoing at LBNL.

Reported by T. OMORI

The date of the next phone meeting is July 19th (Thu.).