

Minutes of the 59th "ILC-CLIC e+ studies" meeting (revised)

Date: 11th (Fri.) December, 2015, 23:00 Jpn (Time slot (c))
(c) 23:00(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):
Eugene(NSC-KIPT), Chehab(LAL), Iryna(LAL), Guler(LAL),
Gudi(Hamburg), Andriy(Hamburg), Sabine(DESY), Song(IHEP),
Alexander(Cornell), Urakawa(KEK), Yokoya(KEK), and Omori(KEK)

Agenda:

1. Venue of POSIPOL 2016
2. Central Region WG: Yokoya-san

Presentations:

http://www-jlc.kek.jp/~omori/ILC-CLIC-e+Studies/20151211/20151211-Yokoya_CRWG.pdf

Summary of the discussions:

1. Venue of POSIPOL 2016:

In the POSIPOL 2015 at CI, three candidate venues of the next year workshop were proposed. They were, Livermore(US), Argonne(US), and Orsay(FRANCE).

But at the end of November, we got a bad news from Jeff-san of Livermore. Due to a trouble, he can't host the Posipol 2016 at Livermore.

So, now, the candidate venues are Argonne and Orsay.

In the meeting there was no ANL represent. Wei-san of ANL sent a mail to Omori and colleagues just before the meeting but Omori missed to read the mail. Due to such environment, we decided to postpone the discussion. We will have discussions on this issue at the next meeting and will get the conclusion.

2. Central Region WG:

Yokoya reported a brief introduction of the newly established working group; Central Region WG.

Please look at "20151211-Yokoya_CRWG.pdf".

(a) Charge of the WG:

- To develop a conceptual design for the central region of the ILC;
 - * at a level of detail consistent with a change request, and
 - * sufficient to define the CFS features of this area of the machine.

- The central region = downstream of the two main linacs;
 - * e- source,
 - * Undulator driven e+ source,
 - * DR transfer lines (but not DR),
 - * RTML,
 - * BDS including associated hardware (dumps, collimators, spoilers etc..)
 - * IR

- Should assume;
 - * Detector Hall layout as specified in CR-003.
 - * Tunnel geometry as specified in CR-004 (2 x 1.5km extension) and lattice ILC2015b.
 - * ML tunnel cross-section as outlined for a 1.5m central shielding wall (CR-13).

- Positron source;
 - * Should be based on the undulator driven positron source as modified by CR-011(=the first part of the original CR-11 = move the booster linac to the upstream).
 - * Should not incorporate any active features of a conventional positron source (e.g. klystron galleries, additional shielding, etc..) at this time.
 - * Should however satisfy yourselves that the CFS layout you propose is consistent with the possibility of the subsequent adoption of the conventional source. (should that prove advantageous at some point in the future.)

- Avoid the temptation of trying to produce an engineering level of detail.
 - * We are not scoped for such a task at this time
 - * It is important to develop the central region concept in a timely way since changes have been made since the TDR and we need to progress towards Kitakami site specific CFS footprint.

- The Working Group should attempt to derive a cost-neutral (or cost reducing) approach.

- The Working Group should plan towards having a working concept for the ECFA workshop in Santander, in June 2016.

(b) Members of the WG:

- General: Benno List, Ewan Paterson, Kaoru Yokoya
- BDS: Toshiyuki Okugi, Glen White
- Sources: Masao Kuriki
- CFS: Masanobu Miyahara, Tomoyuki Sanuki

(c) What must be considered?

- Positron line
 - * Global timing chicane (where?)
 - * Positron spin rotator
 - * Auxiliary positron source
- Must take into account
 - * Installation path
 - * Commissioning scenario
 - * Possible accidents
- Must work with close link to CFS, BDS, positron.

Reported by T. OMORI

The date of the next meeting is in January.
The exact date will be decided later.

The time slot is (b)

(b) 16:00(Jpn), 9:00(Ukr), 8:00(CET), 1:00(US-IL), 23:00*(US-CA)
(* In US-CA, it is the previous day)