

Summary Notes of

1st FORMAL Institute Board Meeting of the CLIC Detector and Physics Study

Held at CERN on 11 June 2013, 15:00-17:00

Present at CERN: Phil BURROWS (University of **Oxford**), Gerald EIGEN (University of **Bergen**) Konrad ELSENER (CERN), Alberto RUIZ (**Spanish Network for Future Linear Colliders**), Frank SIMON (**Max Planck Institute für Physik**, Munich)

Also present: Lucie LINSSEN (CERN), for the ad-interim Executive Team

Attended via Webex: Konstantin AFANACIEV (part-time) (**Minsk**, Bielorrussia), Marc BOLAND (Australian Collaboration for Accelerator Science **ACAS**), Tomas LASTOVICKA (Institute of Physics, Academy of Sciences, **Prague**), Aharon LEVY (**Tel Aviv** University), Ivanka BOZOVIC-JELISAVCIC (**Vinca** Institute of Nuclear Sciences, Belgrade), Leszek ZAWIEJSKI (The Henryk Niewodniczanski Institute of Nuclear Physics, **Polish Academy of Sciences**, Cracow), Jose REPOND (**Argonne**), Mark THOMSON (University of **Cambridge**)

Apologies/absences: Marek IDZIK (**AGH** University of Science and Technology, Cracow), Titi PREDA (**Institute for Space Science**, Bucharest), Ulrik UGGERHOJ (**Aarhus** University), Nigel WATSON (University of **Birmingham**),

Link to Meeting (Indico page): <http://indico.cern.ch/conferenceDisplay.py?confid=251243>

1) Welcome and Approval of Agenda

Frank Simon, the chairperson of the Institute Board (IB), welcomed the participants - the agenda as on Indico was approved.

2) News from the participating institutes

Frank SIMON (**MPI**) mentioned that two PhD students, with thesis work linked to the CLICdp study, have completed their thesis.

Aharon LEVY (**Tel Aviv**) reported on a very recent FCAL review by the ECFA detector R&D panel. A detailed FCAL status report was delivered and several presentations given at the meeting. First reactions indicate that we can hope for a positive and supportive report.

Mark BOLAND (**ACAS**) is happy to report that a student will be starting to work on CLIC studies much sooner than he had originally anticipated. He also pointed out that the following three events are planned to be held in Melbourne:

ACFA – Asian Committee for Future Accelerators <http://legacy.kek.jp/acfa/>;

AFAD 2014 – 5th Asian Forum for Accelerators and Detectors

<http://afad.kek.jp/next/index.html>

AsiaHEP – Asia-Pacific High Energy Physics Panel <http://kokusai.kek.jp/asiaHEP/>

Ivanka BOZOVIC-JELISAVCIC (**Vinca**) mentioned that a new PhD student will start working on the Higgs to ZZ analysis at 350 GeV and 1.4 TeV.

Phil BURROWS (Oxford) reported on the presentation by Armin Reichold at the LC2013 in Hamburg, which was very well received and which contains valuable insight from ATLAS on "meant to be used" and "actually used" features of alignment systems.

Alberto RUIZ (**Spanish Network for Future Linear Colliders**) mentioned that a second paper linked to ILC and CLIC forward tracking has been submitted to JINST.

Gerald EIGEN (**Bergen**) reported on first successful SiPM tests by Erik van der Kraaij, at CERN. The temperature dependence and voltage dependence of the gain for two families of SiPMs was measured in one of the CERN Climate Chambers.

Tomas LASTOVICKA (**Prag**) mentioned that he might have a student soon. He also pointed out that he is reporting on-going work regularly at the LCD analysis meetings.

Konrad ELSENER (**CERN**) announced that he will be on leave from 1 July to beginning of January. The CERN group will be represented at the IB by Dominik DANNHEIM.

3) News from the ad-interim Executive Team

- a) Lucie informed the IB of a successful testbeam run at DESY, in preparation of a CLIC vertex detector test later this year. The testbeam was also a nice example of the integration with a new partner in CLICdp, i.e. Aarhus university, from where two students have participated in the week at DESY.
- b) There are currently 17 members to the CLICdp study. Concerning further possible partners: (a) The signature by Santiago de Chile is well advanced and should be imminent; (b) Edinburgh is participating with one student, involved in a Higgs study; (c) LAPP Annecy has promised to sign, will have to be re-launched; (d) Tsinghua will be re-launched in the coming months; (e) Glasgow is involved in a Higgs study; (f) Rome I is helping in the hardware aspects of the ECAL R&D; (g) Kiev has recently been suggested as a possible partner.
- c) Lucie explained the choice of speakers in the forthcoming EPS-HEP conference, and CLICdp participation in the Snowmass-process meetings.

- d) A draft paper - the CLICdp input to Snowmass - will soon be circulated for comments. This will also be the occasion to discuss the author list (see agenda item 4, below). In order to respect promises made prior to the CLICdp guidelines for publications, the editors of the Snowmass paper will have to be mentioned explicitly and prominently on this paper.
- e) PLEASE NOTE that there is a 2-day CLICdp meeting on 1-2 October 2013. Moreover, a full-week CLIC workshop, detector/physics and accelerator combined, is planned for end of January / beginning of February 2014.

4) Discussion of Annex 4 - Publication guidelines

Frank mentioned that only very minor improvements were made to the draft of Annex 4 since the last IB meeting. There were some further discussions, and minor amendments to the Annex 4, during the meeting, concerning these points:

- Conference proceedings: it was agreed that, although contributions to proceedings are often written by one or very few persons, the CLICdp study should be feeling responsible and be checking contributions to proceedings;
- It was pointed out that the "internal" documents should also be labelled, e.g. as CLIC-DP-INT-yyyy-nnn;
- An explicit, but "soft" statement concerning the posting of slides for presentations - two days before the talk is given - has been added;
- Details of the implementation of the different categories of papers into the CDS system are still to be decided and discussed with the experts at CERN.

With these small changes, there was the consensus on the Annex 4, which was **adopted as the present official version** (it will appended to the MoC asap.).

Concerning the **author list** of the forthcoming "white paper" input to Snowmass, the IB **decided** that a first list should be compiled by Konrad based on information received for the CLICdp list of participants. This list would then be circulated for comments/corrections by all the IB members.

5) Discussion of next steps: CLICdp spokesperson

Frank introduced the topic by pointing out that, according to the MoC, almost all of the next steps in organizing the CLIC detector and physics study are linked to first electing the spokesperson - and the MoC states that the Institute Board elects the spokesperson.

After a short first round of discussion, Mark Thomson pointed out that the very first step towards electing the spokesperson must be to define and **write down the rules**. The IB agreed that this could be rather short text. Frank Simon was mandated to **distribute a draft text** of these rules asap. for comments and later approval. It was **agreed** that this process can take place **by e-mail**, without a further IB meeting. There was general agreement that the election of the spokesperson should happen in a way similar to the election of the IB

chairperson - this time, it is the role of Frank as IB chair to act as polling officer. It was also agreed (and this in the spirit of the MoC) that the choice of the Executive Team will be made after the election of the spokesperson. There was some discussion about the length of term for the spokesperson, and possible re-election. In the end, there was **consensus** that the spokesperson should be elected for **2 years**, and that "normally" there should be a limit to two terms - everyone agreed that this reflects the general wish to encourage the rotation of roles within the CLICdp study.

(Note added after the meeting: The rules for electing a spokesperson, the length of term and possible re-election, etc., will become part of **Annex 3** of the MoC. As for all the annexes, the IB can change the text when this is deemed necessary.)

6) Date and place of next IB meeting

The members agreed that the next IB meeting should be held in the same format, i.e. at CERN and via webex/phone, in the afternoon of the **1st October 2013** (i.e. on the first day of the two day CLICdp workshop/collaboration meeting). An attempt will be made to schedule the meeting such that colleagues in Australia are not (again) asked to work beyond midnight. Details will be communicated in due time by Frank Simon.

7) A.O.B.

7.1. Admission of new partners to the CLICdp study

In a question from Lucie, the IB decided that - from now on - an e-mail should be sent to the IB members informing them of interested new institutes having signed the MoC. While it is not anticipated that there will be any opposition to admission of new members, this procedure respects what is foreseen in the MoC.

7.2 Duration of the term of election of the IB chairperson

Aharon raised the question of the term of election of the IB chairperson. Konrad stressed that this, together with a number of other organisational issues, needs to be decided and written into Annexes of the MoC. Phil pointed out that we must avoid changing of the IB chair and the CLICdp spokesperson at the same time.

(notes drafted by Konrad Elsener - CERN, 13 June 2013)