

Summary Notes of 8th Institute Board Meeting of the CLIC Detector and Physics Study

Held at CERN on 21 January 2016, 12:30 – 13:30 (meeting interrupted by fire alarm)

Present at CERN: Roger RASSOOL for Mark BOLAND (Australian Collaboration for Accelerator Science (ACAS)), Mathieu BENOIT (Geneva University), Yannis KARYOTAKIS (LAPP Annecy), Strahinja LUKIC for Ivanka BOZOVIC-JELISAVCIC (Vinca Institute of Nuclear Sciences, Belgrade), Phil BURROWS (University of Oxford), Konrad ELSENER (CERN), Aharon LEVY (Tel Aviv University), Aidan ROBSON (University of Glasgow), Juan FUSTER for Alberto RUIZ (Spanish Network for Future Linear Colliders), Frank SIMON (Max Planck Institut für Physik, Munich), Joost VOSSEBELD (University of Liverpool), Marek IDZIK (AGH University of Science and Technology, Cracow), Igor BOJKO for Alexey ZHEMCHUGOV (Joint Institute for Nuclear Research JINR, Dubna) John Marshall for Mark THOMSON (University of Cambridge), Filip Zarnecki, (University of Warsaw)

Also present: Lucie LINSSEN (CERN), CLICdp spokesperson

Attended via VIDYO: Konstantin AFANACIEV (Minsk, Bielorrussia), Joel GOLDSTEIN (University of Bristol), Titi PREDA (Institute for Space Science, Bucharest), Leszek ZAWIEJSKI (The Henryk Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences, Cracow)

Apologies/absences: Marco Aurelio DIAZ GUTIERREZ (Pontifica Universidad Catolica de Chile, Santiago), Gerald EIGEN (University of Bergen), Tomas LASTOVICKA (Institute of Physics, Academy of Sciences, Prague), Ivan PERIC (KIT Karlsruhe), Jose REPOND for Marcel DEMARTEAU (Argonne), Nigel WATSON (University of Birmingham), James WELLS (University of Michigan) Ulrik UGGERHOJ (Aarhus University)

Link to Meeting (Indico page): <https://indico.cern.ch/event/484072/>

1) Welcome

Aidan Robson welcomed everybody to this 8th CLICdp IB meeting.

2) News presented by the IB chair

- Aidan Robson reminded the meeting of the rules agreed in the MoC concerning the (re-) election of the spokesperson. He summarised the election process in autumn 2015, which led to the re-election of Lucie Linssen for a second two-year term, with strong support from the collaboration expressed in many messages submitted to the IB chair. Aidan thanked Lucie, on behalf of all the members of the IB, for Lucie's tremendous work and accomplishments as spokesperson and for agreeing to lead the collaboration for a second term. Lucie, in turn, expressed her warm thanks to the IB

for the support – but stressed that this should also be the time for the IB to start looking for candidates, since a new spokesperson must be found in less than two years.

- Aidan then moved on to welcome the latest new member to join CLICdp, JINR Dubna (joining in December 2015). He also pointed out that – although this is no longer really “news” – University of Warsaw has joined CLICdp in the time since the last IB meeting (i.e. in July 2015). Aidan welcomed both Filip Zarnecki (representative for Warsaw in the IB) and Igor Bojko (replacing Alexey Zhemchugov) to the meeting.

3) Report from the Spokesperson

a) CLICdp organisation

Lucie Linssen started her presentation by showing the graph on CLICdp organisation – there is no change proposed to this structure overall.

Concerning the Executive Team (ET), it is currently composed of Lucie (as spokesperson, ex-officio), Konrad Elsener (as technical coordinator, ex-officio), Mark Thomson and James Wells.

Lucie reported that Mark has asked to be replaced, due to his new responsibilities. Lucie proposed to replace Mark by Frank Simon (MPI). (As a side note, Frank already represents CLICdp in the LCC physics and detectors executive board). The IB **approved unanimously** that Frank Simon is member of the ET.

Note added after the meeting (this information was not available until later in the afternoon of 21 January): James Wells (Univ. of Michigan) would be willing and interested to continue serving on the ET.

Concerning the working groups and their conveners, Lucie proposes to continue with the existing structure, but proposes to add Mathieu Benoit (Univ. of Geneva) as co-convenor of the Vertex Detector Technology WG.

Moving on to the Publication Committee, Lucie thanked Aharon who has kindly agreed to continue chairing this committee. Sophie Redford (who left CERN for PSI) and Ulrik Uggerhoj (Aarhus) have asked to be replaced as members – Lucie proposed, in agreement with Aharon, that Filip Zarnecki (Warsaw) and Rosa Simoniello (CERN) become new members of the publication committee.

In the Speakers Committee, Ivanka Bozovic-Jelisavic (VINCA Belgrade) has made her membership available, in the spirit of rotation among CLICdp members. Lucie proposed, in agreement with the chair Eva Sicking, that Marcel Vos becomes a member of this committee.

b) News from CERN – management change

While it is too early to appreciate in the fine details what the new management is planning for CLIC and the LCD group, it was encouraging to note the clear support for CLIC in the DG's speech on 18 January (support at the same level as FCC).

The resources of the LCD group are guaranteed for 2016. Discussion with the new management of EP department, and with the new Director of Research and Computing, have taken place and the feedback was overall positive.

c) Plans towards the 2019 - 2020 update of the European Strategy for Particle Physics

Lucie then presented the list of documents in preparation / being envisaged in view of a common accelerator/physics+detector CLIC summary document for the European Strategy update.

An advanced draft of the paper on CLIC re-baselining can be found at

<http://esicking.web.cern.ch/esicking/ClicStagingBaseline/> .

The CLIC Higgs physics overview paper is approaching completion, see

<http://proloff.web.cern.ch/proloff/clichigspaper/> .

The description of the new, optimised CLIC detector CLICdet_2015 is also available in draft form, see <https://edms.cern.ch/document/1572676/> .

Summary papers on CLIC top physics and BSM physics are planned for the coming years. R&D reports on CLIC detector technology demonstrators will have to be provided, although it is less clear at present in which format this will be done. Finally, a project plan for the period 2019-2025 - for the case CLIC would be supported by the next strategy - will have to be provided.

The IB then discussed the possible action in the short term to prepare for questions related to the 750 GeV "signal enhancement" reported by the LHC experiments. While it was agreed that it is too early to consider that there is "an observation", the meeting **encouraged** interactions with theorists (via the CLICdp physics and analysis WG). The accelerator experts will be asked to help us understand the pro's and con's of the photon-photon collider option.

d) Upcoming events

- CALICE and FCAL collaboration meetings are taking place in March 2016.
- The ECFA linear collider workshop will be held 30 May to 5 June in Santander.
- The next CLICdp 2-day meeting is scheduled to be held at CERN on 30+31 August 2016.

e) Acknowledgements

The presentation by Lucie concluded with a big "THANK YOU" to the colleagues having served CLICdp in various roles during the past years: Mark Thomson in the ET, Sophie Redford and Ulrik Uggerhoj in the PubCom, and Ivanka Bozovic-Jelisavic in the SpeakCom.

4) A.O.B. and next IB meeting

The 9th IB meeting is most likely to take place during the next CLICdp 2-day meeting, scheduled for 30-31 August 2016. Details will be communicated at a later stage.

Please note: Since the IB meeting was interrupted (and stopped) by a fire alarm, the IB chair invites the members to raise any additional topics "A.O.B." by e-mail.

(Notes drafted by Konrad Elsener - CERN, 25 January 2016)