

**Minutes of the 1<sup>st</sup> COMPASS++/AMBER collaboration Board Meeting  
via Zoom on November 24<sup>th</sup>, 2020**

V. Andrieux 28/11/2020

**Attendance:** Alexei Vorobyev (PNPI), Alexei Guskov (JINR), Andrea Bressan (Trieste/INFN), Andrzej Sandacz (NCNR), Barbara Badelek (Univ. Warsaw), Bernhard Ketzer (Univ. Bonn), Carlos Azevedo (Univ. Aveiro), Catarina Quintans ( LIP Lisbon), Daniele Panzieri (Univ. East Piedmont), Eva Kabuß (Univ. Mainz), Grigory Nigmatkulov (MEPhI), Horst Fischer (Univ. Freiburg), Hrachya Marukyan (ANSL), Jan Bernauer (Stony Brook Univ.), Jan Friedrich (TUM), Jechiel Lichtenstadt (Tel Aviv Univ.), Matthias Grosse Perdekamp (UIUC), Michela Chiosso (Univ. Torino) , Ming Liu (LANL), Miroslav Finger (Joined Czech group), Nicolo Masi (Univ. Bologna), Oleg Denisov (INFN Torino), Oleg Kiselev (GSI), Paolo Zuccon (Univ. Trento/INFN), Paul Reimer (ANL), Ralf Kaiser (Univ. Glasgow), Robert Kurjata (WUT), Sergei Gerassimov (Lebedev Inst.), Sergey Donskov (Kurchatov Inst.), Shuddha Dasgupta (Matrivani Inst.), Valery Lyubovitsky (Tomsk Univ.), Vladimir Saleev (Samara Univ.), Wolfgang Lorenzon (Univ. Michigan).

**Absence:** Andrei Elangin (Univ. Chicago), Hajime Suzuki (Univ. Nagoya), Ivan Peric (KIT), Takahiro Iwata (Yamagata Univ.), Tatsuro Matsuda (Univ. Miyazaki).

**Apologies:** Dustin Keller (Univ. Virginia).

**Guests:** V. Andrieux (deputy contact person), S. Levorato (COMPASS technical coordinator), Gerhard Mallot (COMPASS resources coordinator), Damien Neyret, substituted by Nicole D'Hose (Saclay observer), Fulvio Tessarotto (COMPASS co-spokesperson).

Slides: <https://indico.cern.ch/event/978559/>

The meeting started at 15:00 CERN time.

**Agenda:**

1. Approval of agenda and guests
2. Report by contact person
3. 2021 preparations
4. Nomination of future CB chair
5. Spokespeople
6. Physics coordinators
7. Technical board
8. Resource coordinator
9. Perspectives
10. AoB

## 1. Approval of agenda and guests

The agenda was accepted unanimously. Until the ratification of a Memorandum of Understanding, a list of temporary guests contributing and assisting in the formation of the collaboration has been presented and accepted without objections.

## 2. Report by contact person

Jan Friedrich presented a review of the formation of the collaboration starting from the ratification of the COMPASS++/AMBER bylaw. The document was circulated via email and is available on our [COMPASS++/AMBER webpage](#) exclusively to all COMPASS++/AMBER author e-group members. Since October 28<sup>th</sup> 2020, the collaboration board is composed of 40 institutions, the representatives of the various institutions can be found in [Jan's slides](#) and will be published on COMPASS++/AMBER webpage.

He continued with the preliminary minutes from the 139<sup>th</sup> SPSC meeting, which reads “The committee recommends approval of the proposal SPSC-P-360 [...] The SPSC emphasises that the beam allocated to AMBER [...] is subject to the available time in run 3, and to annual discussions in the committee on the use and sharing of the M2 beam line.”

Approval from research board may come, earliest, in January or at the next research board meeting depending on the approval of the preliminary SPSC minutes.

Due to the high competition between users for the M2 beam line, we will have to review and defend our physics program for beam time allocation every year.

Jan concluded with the status of the COMPASS++/AMBER finances. In order to proceed with the preparation of the proton charge radius pilot run, 51 kCHF should be collected.

For this purpose, exceptionally CERN Financial department agreed to open temporarily a third party account (AMBER proto-collaboration account T299740) until 31<sup>st</sup> of December 2021. Once a Memorandum of Understanding is signed, the account can serve as a collaboration team account.

Current signature rights are granted to Jan Friedrich (account manager, contact person), Gerhard Mallot (COMPASS resource manager) and Vincent Andrieux (deputy contact person).

## 3. 2021 preparations

Christian Dreisbach has been invited to give a status of the pilot run preparation for 2021.

The main goals and activities to be performed prior to the pilot run are described in [his slides](#).

The pilot run will be split into two parts:

- A parasitic mode downstream of COMPASS spectrometer for general tests and isolated equipment
- A dedicated mode with the TPC upstream of COMPASS spectrometer to be as close as possible to the final configuration and check the integration of all the equipment together.

The readiness of the key components of the setup have been presented. The IKAR TPC has arrived at CERN and modification and upgrade work have been started. The technical drawing of the gas system for the TPC is expected for the end of this year. The technical design of the final TPC will be finished in the first quarter of 2021. The construction must be launched urgently to be ready for 2022. The first tests of the fiber detector is about to finish and the construction of prototype is to be launched. A prototype of ALPIDE Silicon detector should be ready for test during the pilot run to validate the production for 2022 data taking.

The project is challenging in time-scale, funding and manpower wise but the setup should be partially available for the pilot run in September 2021 and ready for data taking in mid August 2022.

Some members of the CB emphasized that beyond the obvious new detectors, several COMPASS detectors will be equipped with new FE to match the new DAQ and should also be tested during the pilot run.

Finally, a detailed status of the project funding was given. Out of the minimum requirement of 51 kCHF, 18 kCHF should still be collected. Stefano Levorato stressed the fact that this is absolute minimum requirement and does not ensure a successful pilot run.

It has been noted that the content of the table shown at the collaboration board was not up-to-date, the contact person will review the status and update the missing contributions. In any case, the funding of the experiment is an issue and given the current status of the collaboration more donations or in-kind contributions are necessary to guarantee the readiness of all the component and the success of the pilot run.

#### **4. Nomination of future CB chair**

Currently the collaboration board is chaired by the proto-collaboration contact person and deputy contact person. In order to better share the load until the collaboration is fully formed, a CB chair should be appointed urgently.

Wolfgang Lorenzon and Eva Kabuß were proposed as candidate given their valuable contributions in the bylaw drafting committee. Wolfgang cannot commit for the moment and Eva would accept the duty if absolutely necessary. Since several members of the CB, including Eva, would like to have the choice between at least a few candidates and potentially from new institutes, it has been decided to postpone the nomination of the CB chair to the next CB meeting, which should be held in a short lapse of time. Meanwhile, members of the CB should interact among themselves and identify potential candidates by the next meeting.

#### **5. Spokespeople**

A discussion started on the number of spokespeople the search committee should identify as this point is left open by the bylaw. In addition, we should leave some room for the physics coordinators. After debating on the pros-and-cons on the number of spokespeople, a proposition for a ticket option has been presented. A ticket can represent a candidate alone or an association of candidates running together for the spokespeople-ship. Following a vote, it has been decided to leave the freedom to the search committee to propose ticket options with 17 yeses against 9 noes.

It was also agreed to leave to the search committee the decision to look for candidates among the physics coordinators.

A search committee has been appointed. It is currently composed of:

Barbara Badelek (to be confirmed), Christian Dreisbach, Daniele Panzieri, Eva Kabuß, Gerhard Mallot (to be confirmed), Grigory Nigmatkulov and Matthias Grosse Perdekamp.

Commitment from Barbara and Gerhard will be clarified by the contact person after the meeting.

The search committee should report at the February CB meeting and nomination of candidates is to be taken at the April CB meeting.

## 6. Physics coordinators

There are currently three active physics groups, corresponding to the main physics channel of the phase-1 proposal. Those active physics groups should meet and propose a candidate to the CB by December 14<sup>th</sup>. Some members of the CB expressed the need for at least a physics coordinator for the RF-separated project. The situation is more delicate as there is no active groups on this aspect for the moment. Unless a physics group emerges, it is the duty of the CB to identify the candidates and appoint them. As it is not specified by the bylaw a Physics coordinator can coordinate several groups. A call for a meeting in mid of January 2021 will be sent to appoint the physics coordinators as well as the CB chair.

## 7. Technical board

Oleg Denisov shared a [preliminary sketch](#) of a technical board inspired from the COMPASS TB to launch the discussion.

From the debate, it appears COMPASS++/AMBER TB should:

- take office as soon as possible
- work in synergy with COMPASS TB

Given the urgent need for the preparation of phase-1 measurements and especially the pilot run, a working TB acting for the next months is created. For efficiency reason and to ease the communication with COMPASS and CERN divisions, the working TB is chaired by the COMPASS TC, Stefano Levorato, who is already fulfilling the task. The TB would consist of COMPASS TB's appointed members and completed with known experts of new key equipment necessary for the phase-1 proposal. The new members of the working TB will be communicated by Stefano Levorato at the next CB meeting.

## 8. Resource coordinator

Jan Friedrich was already serving as resource coordinator during the formation of the collaboration and is available to continue with this duty. The CB unanimously approved the candidacy of Jan and appointed him as COMPASS++/AMBER resource coordinator until the signature of an MoU.

## 9. Perspectives

Next meeting will be in January for the different votes of:

- CB chair,
- Physics coordinators,
- TB members,
- Precise date of next two CB meetings.

It will be followed by a meeting in February to address the preparation of the MoU. For this purpose, a template should be prepared with suggestions for the members of the drafting committee.

## 10. AoB

None

The meeting ended at 18:30 CERN time.