

**Minutes of the
AMBER Collaboration Board Meeting via ZOOM
on February 9th, 2022, 15:00 Geneva time**

Attendance: C. Azevedo, B. Badelek, J. Bernauer, A. Bressan, M. Chiosso, S. Dasgupta, O. Denisov, N. Doshita, A. Dziuba, M. Finger, H. Fischer, J. Friedrich, S. Gerassimov, A. Guskov, E. Kabuß, B. Ketzer, R. Kurjata, J. Lichtenstadt, W. Lorenzon, V. Lyubovitskij, H. Marukyan, N. Masi, T. Matsuda, D. Panzieri, C. Quintans, A. Sandacz, B. Seitz, P. Zuccon
V. Andrieux, S. Levorato

Guests: –

Apologies: J. Berenguer, J. Novy, G. Mallot, D. Neyret

Absent: S. Donskov, M. Grosse-Perdekamp, D. Keller, M.X. Liu, G. Nigmatkulow, V. Saleev, H. Suzuki, O. Kiselev

There is a new CB member: Norihiro Doshita replaces Takahiro Iwata for Yamagata university.

Thanks a lot to Takahiro and welcome to Nori!

The agenda was:

1. Welcome, Attendance and Apologies
2. Approval of Agenda
3. Approval of Minutes:
CB meeting on January 11, 2022
4. Communications by SPs
5. Communications by CB chair
6. Running order in 2023
7. AMBER bylaws update
8. DY/RF separated beam planning and workshop
9. AMBER logo
10. AOB

2. Approval of Agenda

The items on the agenda were approved without changes.

3. Approval of Minutes

The draft minutes for the CB meeting on January 11 were distributed on January 21st. After an update of the list of attendance no further comments were received. They were approved without further corrections.

4. Communications by SPs (given by J. Friedrich)

a. Interactions since last meeting:

- 17.1. Meeting with SPSC referees
- 17.1. Meeting of EHN2 users
- 18.1. SPSC (no decision on M2 beamline sharing taken)
- 27.1. BE meeting with M2 beamline users

Jan summarised the discussions on:

- Report on PRM test (Christian Dreisbach)
- Beam request 2022 for Xsec and PRM
- COMPASS submitted beam request for 2022

There was some lively discussion. It was decided to stick to our beam request, but we are open for compromises and optimisations of beam usage.

We plan to prepare a day by day planning for the AMBER test measurements till end of March as input for the next SPSC meeting.

b. Reminder: Beam requests to SPS coordinator:

PRM: 14d parasitically, 15d main user

Xsec: 10d main user

Changeover: SIDIS → Xsec: 13d, Xsec → PRM: 24d

There is still room for optimisation, this depends critically on the PRM test setup configuration.

c. Manpower:

Note that quite some resources for support are available for Deputy TC, run coordinator, engineer, DAQ experts, technicians. Some negotiations were started:

- TC depute: Marat Vznuzdaev (PNPI) is available, negotiations are on-going with PNPI.
- Computing/DAQ: Antonin left to CERN, Stefan Huber will leave mid of 2022. → new manpower needed, also responsible for Web page and GLANCE contact needed.
- Engineer: candidate from JINR, sharing between BE NA cons. program and AMBER is being discussed.

d. Proposal Phase-2 status:

As reminder a table with envisaged Phase-2 measurements was given.

e. Common fund: Please contact SPs for the invoicing.

5. Communications from CB chair

a. IWHSS22 workshop

The date of the IWHSS22 workshop was shifted by COMPASS from June to end of August (29.8.-31.8.22) due to several reasons.

So we can stay with the original planning for the AMBER collaboration meeting in June.

d. Dates of 2022 meetings

- Collaboration meeting: 9./11.3.22, CB: 10.3.22 15:00 (remote)

- Collaboration meeting: 21./23.6.22, CB: 22.6.22 15:00

We will try to decide in the March whether the June meeting is remote only or in person.

- Two more tentative dates: week 38 and week 49

6. Running order in 2023

Oleg summarized the information obtained from the DAQ group. Initially it was planned to start in 2023 with PRM and then go to the antiproton production (Xsec). This would imply to change to the new free running DAQ for the detectors in use for PRM and afterwards go back to the COMPASS DAQ when using the full spectrometer for Xsec.

The DAQ and FE groups stated that this running order would imply double load on DAQ/FE group in order to maintain both DAQ and provide the change over as firmware, hardware and Control Room environment are not compatible for two DAQ. In addition, the PT platform and PT magnet infrastructure would have to be rebuilt/dismounted twice, which cost time, manpower and about 50 kCHF (cost of the EP/DT working package). Thus it was proposed to change the order, i.e. start in 2023 with Xsec and then go to PRM.

There was some exchange of opinions, especially discussing the consequences if the test measurements for PRM and Xsec in 2022 can be done or not. Starting with Xsec in 2023 would put a lot of weight on the 2022 test. In the end the CB members decided to support the new plan for 2023 to start with Xsec and then go to PRM.

In addition it was announced that it is now official that 2025 will be a normal running year for the SPS. LHC LS3 will last from 2026-2028, but only a two year shutdown for SPS is envisaged, either 2026/27 or 2027/28. The SPS users will be asked to express their opinions.

7. AMBER bylaw update

Andrea Bressan reported on the status of the MoU focussing in the bylaws. There are several proposed changes from Helge Meinhard, many mainly concerning wording, they have been applied.

There are a few points to be decided by the CB, also there is a possible addition:

(1) Code of conduct

A new paragraph was proposed for the bylaws. There was a lively discussion on the necessity and the purpose with quite different opinions. It has to be clarified whether the code of conduct should go to the publication rules or bylaws. It was decided to form a small

group to look into the general CERN rules and to discuss what is needed in addition. Catarina Quintans and Björn Seitz agreed to take part, in addition we should find one or two young persons to join.

added after the meeting: Marketa Peskova agreed to join the group.

(2) **Composition of CB**

Few options were shown by Andrea: One seat per institutions (35 seats), distribution according to modified St.League's rule (as is used for COMPASS) with fixing the number of seats to 31, 41, 51.

In the discussion it was agreed that 35 seats is a reasonable number. Andrea will provide a table with the modified St. League's rule for 35 seats. It will be circulated to the CB members before the next meeting. The aim is to take the decision in the next meeting.

(3) **Composition and duration of PubCom term**

A text was proposed by PubCom for the bylaws. It was agreed to add this text.

(4) **Duration of SP term**

The present rules allow for 1 or 2 SP with a 2 year term with the possibility of one re-election.

This rule might be too strict in case of lack of candidates. There was some exchange of opinions and it was expressed that some re-election possibility with 2/3 majority could be added.

Andrea will draft a proposal, which will be circulated to the CB members before the next meeting.

8. DY/RF separated beam planning and workshop

A report was given by Vincent Andrieux on the outcome of the RF-separated beam workshop (<https://indico.cern.ch/event/1069879/>). The proposed RF separated kaon beam seems to be sufficient for all phase-2 physics projects except of the DY program. Thus the option of using the conventional beam for DY should be rediscussed.

A summary document from this workshop is still missing, also possible upgrades to the conventional hadron beam were not touched. Thus a workshop will be organised in March to discuss possible improvements for the conventional beam, define the requirements for pion and kaon DY and prepare material for the June AMBER status report to include kaon induced DY. In addition a document for the RF scenario for the other physics topics will be prepared.

The organisation committee consists of Silvia Schuh-Erhard, Johannes Bernhard, Oleg Denisov, Vincent Andrieux.

added after the meeting: The date of the workshop was fixed to 23./24.3.22 15-17:30.

Manpower and DY tasks: Manpower situation for the DY preparations is critical. Vincent showed a list of task. Currently 2 master students and 2 postdocs (part time) are working for the subject, whereas about 10 persons would be needed.

9. AMBER logo

Updated drafts were obtained from Melissa Perrey. Thanks a lot to Marketa Peskova for the support and communications with Melissa.

Three logo drafts were shown (2 from Melissa, 1 from Jan Matousek). It was decided unanimously that we should prepare a vote by the collaboration before the next collaboration meeting to select the AMBER logo. Carlos is once more so kind to organise the voting.

10. AOB

There was no AOB.

End of meeting: 19:05