

**Minutes of the  
AMBER Collaboration Board Meeting via ZOOM  
on July 19, 2023, 15:00 Geneva time**

**Attendance:** C. Azevedo, B. Badelek, J. Bernauer, A. Bressan, M. Chiosso, A. Cicuttin, S. Dasgupta, O. Denisov, S. Donskov, N. Doshita, A. Dziuba, H. Fischer, J. Friedrich, E. Kabuß, R. Kurjata, S. Levorato, J. Lichtenstadt, J. Matousek, D. Panziera, A. Sandacz, B. Seitz, P. Zucco, M. Zavertyaev  
M. Veit, G. Mallot, M. Alexeev

**Guests:** K. Brinkmann

**Apologies:** A. Guskov, N. Masi, T. Matsuda (replaced by Takahiro Iwata), J. Novy (replaced by Kamil Augsten), C. Quintans, D. Neyret, T. Poeschl, O. Kiselev

**Absent:** J. Berenguer, A. Gerbershagen, B. Ketzer, D. Keller, M.X. Liu, V. Saleev, S. Smirnov, H. Suzuki

The agenda was:

1. Welcome, Attendance and Apologies
2. Approval of Agenda
3. Approval of Minutes
  - CB meeting June 15, 2023
4. Communications by SPs
5. Running strategy for 2024
6. New group
7. Communications by CB chair
8. AOB

**2. Approval of Agenda**

The items on the agenda were approved without changes.

**3. Approval of Minutes**

The minutes of the CB meeting on 15.6.2023 were approved without changes.

**4. Communications by SPs (given by Jan Friedrich)**

**a) Status of MoU**

- Document was sent to CERN research director
- Signature collection started

**b) Short report on meeting with RD J. Mnich on 11.7.23**

- Most likely collaboration with Belarus/Russian groups will be stopped on Jun 24/Dec 24
- JINR will probably be treated separately

- AMBER should provide input of involvement:

Drell Yan: MW2 Protvino, HCAL1/MW1 JINR

PRM: TPC PNPI, ECAL2 Protvino

c) **AMBER status report** due mid-August

## 5. Running strategy for 2024

### **Report from TB meeting on Monday by Moritz Veit:**

An extra TB meeting took place on 17.7.23 to evaluate the feasibility for an APX run in 2024. Moritz gave a short summary of the main topics discussed during the meeting:

- Physics case: APX with hydrogen target is part of proposal, would lead to an extension of the available parameter space, clear interest by theoreticians.  
The running strategy should be the same as for 2023 (about 2 months)
- RICH: no major stopping point, more  $C_4F_{10}$  has to be purchased
- DC/PMM: need a group to take over responsibility
- Hydrogen target: inventory of existing material, new target cell has to be build
- DAQ: no major stopping point, some finances for support needed, development of new DAQ will slow down
- CEDARs: strategy to improve operation from AMBER side and from SY-BI needed
- RICH wall: Multiplexer cards have to be borrowed again from JINR
- Cold Silicons: status not quite clear, there was a longer discussion on the Munich contribution, no conclusion yet.
- Construction of a new target area is necessary

### **Outcome of discussion in the TB meeting:**

TB gives a positive feedback for an APX run with hydrogen target in 2024.

### **Discussion with referees:**

Input from other experiments (MUonE, NA64) needed.

### **Result of discussion:**

CB unanimously supports to push for an antiproton production measurement in the beginning of 2024.

## 6. New group: Gießen

### **Represented by Kai Brinkmann**

Kai introduced his group in the II. Physikalischem Institut at JLU Gießen and summarized their instrumentation and experiences pointing to possible contributions to AMBER. The group joined the German BMBF application and will collaborate with Freiburg, Mainz and Munich on hardware. In addition, contributions e.g. to simulations for future measurements are envisaged.

CB welcomes the Gießen group in AMBER, Kai Brinkmann will take the Gießen seat in the CB.

## **7. Communications by the CB chair**

### **a) CB chair:**

- My mandate ends in September
- Please consider to be available for next year

### **b) Dates of remaining 2023 collaboration meetings**

- CM meeting 6.9.-8.9.23, CB 7.9.23 15:00 Geneva time
- CM meeting 27.11.-29.11.23, CB 28.11.23 15:00 Geneva time
- Dates of 2024 meetings will be discussed in September CB

## **8. AOB**

### **PAW24:**

will take place probably in the beginning of April 24.

**End of meeting: 16:45**