

## Minutes of the Board meeting 2018-02 on 28 August 2018

Time of the meeting: Tuesday, 28 August 2018 from 10:45 to 13:00

Place of the meeting: EPFL, Lausanne, Building Centre Est (Avenue Piccard), Auditorium CE 3

Map and direction: link to the EPFL Map → [link](#)

### 1. Welcome and agenda

Tatsuya Nakada, the CHIPP chair, welcomes the board members, the board honorary members and the observers at the board. He welcomes the new members from the University of Geneva: Francesco Riva, Martin Kunz and Federico Sanchez Nieto.

The agenda is approved without any modification.

### ADMINISTRATIVE ITEMS

#### 2. Apologies and Proxy votes

Board members with voting rights (as of 26 August 2018): 66

Present: Chapochnikov, Colangelo, Dissertori, Ereditato, Golling, Grab, Hildebrandt, Iacobucci, Isidori, Kilminster, Kirch, Kotlinski, Kreslo, Mermod, Montaruli, Nakada (Chair), Piegsa, Pozzorini, Rivkin, Sanchez, Schneider, Serra, Sfyrla, Signer, Wallny, Weber, Wu.

Other participants: Benelli (Admin.), Pauss (Hon.), Schopper (Obs. SPS).

The Chair details the apologies received and the proxy votes announced before the meeting<sup>1</sup>.

Quorum: 22 votes (= 1/3 of the Board members; Art. 24.1 Statutes); Votes present: 27 + 8 proxies = 35

→ The quorum is reached.

The following Board members sent their apologies to not be able to participate: Marc Türlér, Xavier Reymond, Thomas Werder.

#### 3. Minutes of the last meeting (2018-01 [February 2018]): → [minutes](#)

The Chair asks for comments concerning the minutes of the previous meeting. As there are none, he invites the Board to approve them. The minutes are approved without any change and will be published on the CHIPP.CH website.

### DECISION ITEMS

#### 4. Re-election and Election of Executive Board members

The current composition of the Executive Board is: **Tatsuya Nakada** (EPFL), Chair, until Dec 2019, **Michele Weber** (Uni. Be), until Dec 2018, **Adrian Signer** (PSI), until Dec 2018, **Günther Dissertori** (ETHZ), until Dec 2019. Michele is ready to serve for another term, Adrian would like to step down after two terms served

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<sup>1</sup> Gino Isidori (for *Thomas Gehrman*) Leonid Rivkin (for *Aurelio Bay*) Malte Hildebrandt (for *Stefan Ritt*) Adrian Signer (for *Aude Gehrman-De Ridder*) Nicola Serra (for *Laura Baudis*) Stefano Pozzorini (for *Massimiliano Grazzini*) Tatsuya Nakada (for *Olivier Schneider*) Günther Dissertori (for *Florencia Canelli*)

in the EB. The Chair thanks him for his strong commitment and his many extremely valuable contributions to the EB.

Tatsuya asks Michele to leave the room. The Chair asks the Board to re-elect Michele Weber with an open vote.

The Board re-elects Michele Weber unanimously for his second term as vice-chair in the EB (Jan. 2019 – Dec. 2020).

Weber enters in the Main Auditorium, a round of applause for him.

Two candidates have been nominated to replace Adrian Signer: Gino Isidori (University of Zurich) and Michael Spira (PSI). Both are theoreticians and it is very important to keep within the EB both experimental and theoretical points of view.

The Chair asks if the Board has questions for Gino Isidori, since Michael could not be present he doesn't ask Gino for a statement. Since there are no questions, Gino leaves the room. Tatsuya asks the Board members to comment on the two candidates: Klaus Kirch express his gratitude for both of them for the work they do for the CHIPP community, they are both active members and he stresses the importance to have a theoretician in the Executive Board. Many in the audience agree with him. The Board decides to vote with a secret vote.

The Board elects Gino Isidori for his first term as vice-chair in the EB (Jan. 2019 – Dec. 2020). The result of the vote is: 20 votes for Gino Isidori, 8 votes for Michael Spira, 1 abstention.

Isidori enters in the Main Auditorium, a round of applause for him. Gino thanks everybody for the confidence the Board has expressed in electing him.

#### 5. **Re-election of the APPEC General Assembly scientific delegate**

The Chair reminds that Switzerland is member of the Astroparticle Physics European Consortium (APPEC) since January 2013. Teresa Montaruli is willing to serve for a 4<sup>th</sup> term in 2019–2020. She is very happy to continue in this position since she has been elected secretary of the APPEC Chair and she is looking forward to all the scientific challenges presented in the new APPEC roadmap for the next future. She will report in the Plenary meeting about the last news about APPEC. She is asked to leave the room, while the Chair asks for comments or questions. As there are no further comments, the Chair proceeds with the vote. No secret vote is asked.

The Board re-elects Teresa Montaruli unanimously as APPEC General Assembly scientific delegate from Jan. 2019 – Dec. 2020

Montaruli enters the room with applause. She thanks the Board.

#### 6. **Re-election of the CHIPP Account Auditor**

The Chair reminds that the election of the CHIPP Account Auditor belongs to the CHIPP Board. CHIPP has two auditors: Aurelio Bay (EPFL) and Ben Kilminster (U. Zurich). The first term of Kilminster is arrived at its end, he is willing to serve for a second term. Angela recalls the board what are the duties of the Auditors: once a year they receive the full account statements and documents. The two auditors check them all and in a meeting between them with the Financial Accountant (Mrs. Hodler from the SCNAT) and the CHIPP Administrator all the entries in the account are verified. After the audit they sign a document where they approve the Annual Accounts, the Balance Sheet and the Profit and Loss Statement and they discharge the CHIPP EB and the CHIPP Administration for the year.

Chair asks for comments or questions. As there are no further comments, the Chair proceeds with the vote. No secret vote is asked.

The Board re-elects unanimously Ben Kilminster for a second term as CHIPP auditors (Jun 2018 – Jun 2021).

Kilminster is called back and enters the room with applause.

#### 7. Re-election of the EPPCN representative

CHIPP is member of the European Particle Physics Communication Network, and Angela Benelli is the Swiss representative since she started as CHIPP administrator replacing Marc Türlér. SERI is funding part of this position and CERN is supporting the travel associated with it. Angela is ready to serve another term. The Chair asks Angela to leave the room.

The Board re-elect Angela Benelli for a second term as EPPCN Swiss representative (Jan 2019 – Dec2020).

Benelli is called back and enters the room with applause.

#### 8. Election of the ECT\* representative

The Chair reminds the Board that CHIPP is member of the ETC\* with the support of SNF which funds the membership fees. CHIPP needs to have a representative and since Gilberto Colangelo was the original promoter of Switzerland to be member of this network the EB nominated him to be the representative for the first time for Switzerland. The Chair ask Gilberto to leave the room.

The Board elects in open vote unanimously Gilberto Colangelo for a first term as ETC\* Swiss representative (Aug 2018 – Aug 2020).

Colangelo is called back and enters the room with applause.

#### 9. Nominations for admission of new honorary members

The Chair reminds the board about honorary memberships as described in the Statutes. The admission of Honorary Members is at the discretion of the CHIPP Plenary, based on a recommendation by the Board. He recalls that there are two types of membership: for the Board or the Plenary.

Two Professors were eligible to be honorary members this year: **Alain Blondel** (University of Geneva) and **Ulrich Straumann** (University of Zurich). Alain Blondel and Ulrich Straumann requested to be admitted as Honorary Board Member and as Honorary Plenary Member respectively. In absence of comments, the Chair proceeds with the vote.

The Board, in open vote and unanimously,  
- confirms that the two applicants fulfill the requirements for being granted the status of Honorary Board Member and Plenary Board member by the end of 2017 according to the Statutes;  
- submits to the Plenary the proposals of Honorary Board Membership by the end of 2017 of Alain Blondel and of Honorary Plenary Member of Ulrich Straumann, thereby recommending their admission in these categories.

#### 10. Nomination for election of a Swiss Restricted-ECFA representative

The Chair introduces the topic by recalling that the election of the Swiss representatives in the European Committee for Future Accelerators (ECFA) belongs to the CHIPP Plenary, based on a recommendation by the Board. ECFA will endorse the election in its plenary meeting in October. Tatsuya Nakada presents the current Swiss representatives in ECFA and states that Lenny Rivkin (EPFL/PSI) is finishing his 2<sup>nd</sup> term at the end of the year as Restricted ECFA representative. Under ECFA rules he cannot stand for re-election. The call for nominations among the CHIPP Plenary Members resulted in two new candidates: **Ben Kilminster** (U. Zurich) and **Mike Seidel** (PSI), they are ready to serve and stand for election.

Their CVs were part of the confidential documentation distributed to the Board. Lenny Rivkin reminds the board of the role of the RECFE representative: he or she should participate in the 4-5 visits to the selected laboratory facilities and accelerators of CERN member states. During these visits there are in-depth discussions about the status of the laboratory and about funding and support issues. There are also discussions with high-level representatives from both research and industry in the visited country. Another duty of the RECFE representative is to participate in the working groups initiated by RECFE for its studies.

The strategy discussion will be one of the main topics of discussion during the next year. Ben presents briefly himself and explains that he would like to be RECFA representative to be part of future strategic decisions. Since Siegel is not present Klaus Kirch presents his work and CV. He stresses the importance to have an accelerator physicist in the RECFA group since with the departure of Lenny this expertise will be reduced by 50%, Klaus adds that Mike is an open-minded character and a good communicator. Ben Kilminster is asked to exit the room.

Giuseppe Iacobucci raises the question on whether it's appropriate if Switzerland has to provide every time an expert on accelerators. He wonders if other member states should also contribute to this field.

The Board elects Mike Seidel for his first term as RECFA Swiss representative (Jan. 2019 – Dec. 2021). The result of the vote is: 19 votes for Mike Seidel, 13 votes for Ben Kilminster, 1 null vote.

Kilminster is called back and enters the room, the Chair explains to him the reason for the board decision to select Mike Seidel, i.e. he is an accelerator physicist and the board felt important to keep this expertise of Switzerland in RECFA at this moment.

#### 11. Nomination for election of a Swiss Plenary-ECFA representative

**Olaf Steinkamp** (Uni. ZH) is Plenary ECFA until Dec 2018 serving his 2<sup>nd</sup> term, he cannot be re-elected since he already served two terms, the EB asked for nominations that resulted in the candidacy of **Frederic Blanc** (EPFL). **Andreas Knecht** (PSI), is Plenary ECFA until Dec 2018 in his 1<sup>st</sup> term and is willing to serve for a second term. Frédéric is asked to leave the room.

The Board elects in open vote and unanimously **Frédéric Blanc** for a 1<sup>st</sup> three-year term (Jan. 2019 – Dec. 2021) as Plenary ECFA representative.

The Board re-elects **Andreas Knecht** (PSI) as Plenary ECFA for a 2<sup>nd</sup> three-year term (Jan. 2019 – Dec. 2021)

#### 12. Nomination for Election of the Swiss ACCU representative

The Chair reminds that the election of the Swiss representative in the Advisory Committee of CERN Users (ACCU) belongs to the CHIPP Plenary, based on a recommendation by the Board. Michael Dittmar (ETHZ) is finishing his 2<sup>nd</sup> term in December 2018. The candidate is **Danek Bohdan Kotliński** (PSI) that accepted the nomination with only one condition: he is ready to serve for one year only since he will retire in 2020. Danek is asked to leave the room. In absence of comments, the Chair proceeds with the recommendation vote.

The Board in open vote and unanimously recommends to the Plenary the election of Danek Bohdan Kotliński for a 1<sup>st</sup> one-year term (Jan. 2019 – Jan. 2020) as ACCU representative.

Kotliński is called back and enters the room with applause.

#### 13. Scientific CERN Council Delegate

The decision regarding the scientific member of the Swiss delegation to CERN Council belongs to the State Secretariat for Education, Research and Innovation (SERI). However, SERI has kindly asked CHIPP to nominate two candidates and SERI will choose one of them after an interview. The CHIPP EB asked for nominations and it resulted into two candidates willing to be scientific member of the Swiss delegation to the CERN Council from 1 January 2019 to 31 December 2021: **Günther Dissertori** and **Giuseppe Iacobucci**. The Board is asked to endorse these nominations.

The two candidates are asked to leave the room.

Rainer Wallny expresses his gratitude to the two candidates for accepting the nomination and he adds that the

Swiss community is very lucky to have two candidates of such high calibre to present to SERI.

The Board votes unanimously and openly in favour of presenting the two candidates to SERI to be considered for the position of scientific member of the Swiss delegation to CERN Council.

Dissertori and Iacobucci are called back.

The Chair concludes this part of the meeting reminding the decision taken by the Board regarding the Swiss representative for the Strategy Group for the update of the European Strategy for Particle Physics. The Board was asked to vote whether the CHIPP Chair should be considered for the position by officio. The e-mail election got 24 votes in favor. The decision to present the CHIPP chair, Tatsuya Nakada, was communicated to SERI who acknowledge the nomination, and this will be presented in the September Council meeting at CERN.

## **DISCUSSION ITEMS**

### **14. FLARE funding requests**

The Chair reminds the Board that the deadline for the new FLARE requests for the period 2019-2020 is the 15 November 2018 as stated in the e-mail sent by Angela on the 20 August 2018. These requests are part of the funding that SNF has announced for the 2017-2020 period, the total being 32 M CHF for the field of particle and astroparticle physics, and astronomy. The funding already granted is 18.7 M CHF for particle and astroparticle physics (CHIPP) and 2.9 M CHF for Astronomy (CHAPP). The intension by the CHIPP community for the 2019-2020 requests communicated to us sums up to 11.3 M CHF. Considering that usually 20% of the total should go to Astronomy, funding still available for us is 7 M CHF.

We have requests for 4 M CHF more than we can expect to receive. Next stage will be discussed in a separate meeting with the PIs before the next Board meeting on the 11 October.

The Chair reminds the board the conditions of eligibility for the FLARE funding: first to have a project grant approved by SNF, secondly to be a ground based experiment, i.e. space based astroparticle experiments are not eligible for the FLARE funding.

G. Dissertori asks whether for the FLARE Computing request the PIs has to be a holder of a project grant related to LHC and in case if the co-PIs could be considered instead. Tatsuya Nakada will inquire about it.

### **15. Computing steering board**

The Chair reminds the board that the CHIPP computing chair is also acting as PI for the FLARE computing requests. Christoph Grab is arriving to the end of his mandate and we have a possible candidate to replace him. This is very new information that we didn't even have in time to discuss at the EB. The Chair proposes to discuss it at the EB first, and then make a proposition at the next Board meeting. Since the deadline for the FLARE request is the 15 November and under the actual rule C. Grab could not be a PI due to his retirement and Rainer Wallny has agreed to propose himself as a grant responsible (he is one of the current co-PIs).

Teresa Montaruli asks if a meeting of the general CHIPP computing board has been scheduled. Tatsuya Nakada explains that the names from each CHIPP community have been collected but then the process stalled and maybe it needs a special meeting to get it restarted.

## **INFORMATION ITEMS**

### **16. SWICH Workshop in Fribourg**

The Chair reminds the board that three Pillar moderators have been nominated and that they will report about the preparation work for the next SWICH 2 Workshop.

The moderators are: Rainer Wallny for Pillar 1, Michele Weber for Pillar 2 and Ruth Durrer for Pillar 3. The SWICH2 Workshop will start at 11h00 with three parallel sessions, one for each Pillar, and the moderators will be Chair-persons of these sessions. These sessions should help each Pillar to converge on the priority

within the Pillar. After the lunch, a Plenary session will start with an introductory talk by Gregor Haefliger who is the successor of Bruno Moor at SERI followed by discussion for Pillar 1. In the morning of Friday it will continue with the plenary Pillar 2 and Pillar 3 discussion. In the afternoon we will have a plenary meeting where we shall discuss the three Pillars together and hopefully we will have a complete picture.

### **Status report from the Pillar moderators**

**Pillar 3:** R. Durrer couldn't attend the meeting, so Tatsuya Nakada presents her [slides](#).

She points out four main areas of research in Astroparticle: Dark Matter, Dark Energy, High Energy astrophysics and Gravitational waves. In each of them are reported the main activities and experiments. Then she focalises on the Swiss involvement in these main areas indicating if they are for the present or near future in relation with the FLARE requests. For what concerns in particular SKA, Tatsuya Nakada adds that CHAPS is involved in this and discussing with SERI a separate funding line as an international research infrastructure. Teresa Montaruli points out that there are many more experiments that should be added in the Dark Matter like IceCube and CTA.

**Pillar 2:** M. Weber presents his [slides](#)

This document has been created to prepare for the SWICH 2 Workshop in September, it gives a general overview of neutrino physics in Switzerland. The Swiss community is concentrated primarily on oscillation experiments (mainly accelerator based), on cosmic neutrinos and on the double beta decay experiment. Cosmic neutrinos are usually studied in big experiments in astroparticle physics, i.e. Pillar 3. There are documents to consider for the discussions at SWICH 2 Workshop: the output of the first SWICH Workshop and the 2015 Neutrino White Paper.

Michele divides the plans for the future into three as defined by the EB.

1-Next FLARE periods investment (2019/2020 & 2021/2024): preparation of the large experiments, upgrades of the existing experiments.

2-Medium term (2025/2035): mainly devoted to completing currently considered experiments.

3-Long term (beyond 2036): not clear what will happen in the far future, it will be defined from the discoveries obtained in the previous periods.

Michele will prepare the agenda for the parallel session at SWICH2 so as to be able to discuss all this in more detail.

Philippe Mermod points out that, in his opinion, the SHiP experiment should be part of Pillar 2 dealing mainly with neutrino physics and not in Pillar 1 where it has been assigned. Tatsuya Nakada reminds him that Pillar 1 is not only physics at the energy frontier but also at high Intensity as we have agreed at SWICH 1 in Murten.

**Pillar 1:** R. Wallny presents his [slides](#)

Rainer starts by presenting the physics focuses of Pillar 1 that are mainly the search for beyond the Standard model physics with direct searches at the high energy frontier (like Dark Matter searches), the precision measurements on the Higgs boson sector, studies on Electro-Weak Symmetry Breaking and also indirect searches at low energy and high intensity facilities. At the first SWICH Pillar 1 presented the new White Paper draft where care was taken to avoid including any recommendations. The Editorial Board has started collecting all the inputs during SWICH 1 and now it's time to find a consensus on the recommendations in the last chapter of the White Paper. The Editorial Board of the Pillar 1 White Paper has been acting as a group of co-moderators and presents in this last document what they think would be the best option for an initial discussion within the Editorial Board. Hopefully they can subsequently bring this to the larger community of Pillar 1. Afterward it will be asked for a global consensus during the SWICH 2 Workshop.

For the first time period (2019/2020 & 2021/2024): exploitation of the LHC is high priority. It is important for future diversity to fund smaller experiments in the FLARE programme like R&D activities and low energy

frontier projects at PSI.

Medium term time period (2025/2035): upgrades of LHC experiments and continuing the support for LHC as well as the upgrade of a selected low-energy experiment at PSI at the HiMB facility. During this period medium term future programme should have become more concrete and it will be possible for the Swiss community to support the SHiP project.

Long term period (beyond 2036): We need the time to discuss the different scientific scenarios and all the technological, sociological, political implications.

The Editorial Board would like to update the paper, with consensus among the Editorial Board members, send it out to the community and collect feedback. They would like to complete this soon so as to be able to prepare for a focused discussion at the parallel session at SWICH2 and then share it with all CHIPP members.

G. Iacobucci asks if it's really necessary to confirm and defend the Swiss support for LHC. Rainer replies that even if the LHC experiments have been approved for the upgrade we need to confirm our support and it's very important.

G. Iacobucci stresses that it would be very important to discuss between CHIPP how to support the experiments in PSI and look for who would like to participate in them.

There is a discussion on whether there is in the White Paper too much emphasis on the flavour anomalies, a hint from LHCb. Tatsuya reminds the Board that the strategy will be updated every ~5 years. Nicola Serra and Gino Isidori feel that it is important to put it in the strategy the plan to verify these anomalies, if in the future it turns out to be not a signal nobody would be ashamed, it is justified now to insert it.

Felicitas Pauss reminds the Board that the previous Swiss strategy was very successful, and it was used as a guide for many years because CHIPP really made the effort to prioritize the goals. Another important aspect is to really understand what the Swiss community wants to do at CERN and to put it as a Swiss input to the CERN Strategy.

## **17. Input to the Swiss Research Infrastructure roadmap (2021-2024)**

Tatsuya Nakada reports that there was a discussion at the Round Table International about the next-next update of the roadmap (2025-2028) and it was agreed that the full community should be asked to give input. For the previous round we had two CHIPP projects that were included in the roadmap: CTA and the long base neutrino facility. It will not be necessary to update the roadmap for CTA, while it's necessary to do it for the neutrino facility. Michele Weber has been contacted by SERI for an update on the Neutrino situation.

Michele reports that he has been asked by SERI to fill in a form with the updates for the long baseline facility and the DUNE experiment, with the special funding that Switzerland should provide, and he asked for a sum that is of the same order of magnitude as the other cases; e.g. for CTA it was 8~9 M CHF. It will now be processed by SERI and sometime next year it will go to the Parliament. Teresa points out that she was asked to submit a similar form as well. The documents are available here: Neutrino & CTA.

## **18. Zuoz Summer School 2018**

Adrian Signer presents his slide about the Zuoz school. The organisers are already thinking about the school for next year. It will be the 25<sup>th</sup> school and Adrian, as the school organiser, feels that that the CHIPP Board should give inputs on which topics should be covered during the school. He reports that a "dynamic" committee will be formed to which everybody will be invited (via email) and the school will be a CHIPP summer school and everybody will be asked to give inputs on how it should be organised. Tatsuya adds that the feedback from the students was very positive.

## **19. SCNAT funding requests**

The 20 August CHIPP submitted the requests to the SCNAT for the projects of 2019. Florencia Canelli is the responsible for the CHIPP PhD Winter School 2019: we requested 10300 CHF, Adrian Signer is the responsible person for the PSI Workshop 2019: we requested 10000 CHF, then we had the IPPOG

membership fee of 3000 euros and the part connected with Outreach, the “Dialog with society” for which we requested 10000 CHF.

## **20. New professorships at CHIPP institutes: report from each institute**

Basel, Bern: no news.

Geneva: Federico Sanchez has been appointed as a professor, Anna Sfyrla has been appointed as an associate professor.

Zurich: Florencia Canelli and Ben Kilminster have been promoted to a rank of full professor.

EPFL: One position for assistant professor: the management is discussing the details with the candidates, around 2020 it is hoped to open one other position to keep constant the number of professors for the field.

ETHZ: project to have an accelerator professorship opening in the future.

PSI: no news.

## **21. Next CHIPP Plenary and Board meetings**

Angela sent a [Doodle](#) to fill to find the best date to have the next year Plenary Meeting.

## **22. A.O.B. Database migration from Uni. Zurich to the SCNAT.**

The SCNAT has kindly accepted to host the CHIPP database on its servers since the University of Zurich is not able to maintain it. There is only the issue of the Data Privacy and Protection to be solved. The SCNAT asks CHIPP to sign a contract where CHIPP commits to apply to the new Swiss and European regulations about the privacy. CHIPP should have the consensus of the members to have their personal data in the database and eventually make it public online. CHIPP is a relatively small Association and personal information are given by their home institute. The members join CHIPP to be a part of the network of particle physicists so they are willing by default to provide their e-mail and postal addresses to be contacted. It is particularly important to stress that their information are anyway already public on the home Institute websites. Considering all this, the SCNAT has accepted the procedure where the all CHIPP members receive a letter where it's explicitly written that they are members, that their data will be store in our database, that part of the information will be online, that they have the right to change or delete part of the information or to be deleted completely.

The Board endorse the decision to send to all CHIPP members the information letter about the Data Privacy and Protection and this procedure.