



Swiss Institute of  
Particle Physics

an Association according to Swiss law

## Minutes of the Board meeting 2019-01 on 26 February 2019

Time of the meeting: Tuesday, 26 February 2019 from 13:15 to ~16:00

Place of the meeting: Room 'Eiger', Haus der Akademien (SCNAT), Laupenstrasse 7, Bern

### 1. Welcome and agenda

Tatsuya Nakada, the CHIPP chair, welcomes the board members, the board honorary members and the observers at the board. The agenda is approved with two items added:

**APPEC News**

**Teresa Montaruli**

**AGORA proposal: ORIGIN**

**Günther Dissertori**

### ADMINISTRATIVE ITEMS

#### 2. Apologies and Proxy votes

Board members with voting rights (as of 19 February 2019): 63

Present: Bay, Canelli, Dissertori, Grab, Iacobucci, Isidori, Kilminster, Kotlinski, Mermod, Montaruli, Nakada (Chair), Piegsa, Rivkin, Schneider, Sfyrla, Spira, Wallny, Weber.

Other participants: Benelli (Admin.), Bourquin (Prof. em), Minkowski (Prof. em.), Paus (Prof. em.), Salzarulo (Obs. SERI), Türler (Obs. SCNAT),

**Apologies:** Andreas Schopper (SPS), Thomas Werder (SNF), Xin Wu (UGe), Bernd Krusche (U. Basel)

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

Quorum: 21 votes (= 1/3 of the Board members; Art. 24.1 Statutes); Votes present: 16 presents + 2 persons via video + 5 proxies = 23 → The quorum is reached.

#### 3. Minutes of the last meeting (2018-03 [16 October 2018])

[Minutes](#)

The Chair asks for comments concerning the minutes of the previous meeting. O. Schneider asks for a correction, afterwards the Chair invites the Board to approve them. The minutes are approved and will be published on the [CHIPP](#) website.

### DECISION ITEMS

#### 4. Closure of the 2018 Accounts

- **Annual Report 2018**

The Chair reminds that CHIPP, as member of SCNAT, has to deliver an annual report to this organization and that therefore the format of the CHIPP annual activity report is based on the SCNAT format. Angela asks the Board members to please check the entries of their own Institute.

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<sup>1</sup> Danek Kotlinski (for Klaus Kirch) Michael Spira (for Malte Hildebrandt) Florencia Canelli (for Laura Baudis) Beppe Iacobucci (for Tobias Golling) Florian Piegsa (for Bernhard Lauss) Michele Weber (for HansPeter Beck).

## Annual Accounts 2018

The Chair presents briefly the main incomes and expenditures of the profit and loss statements. The incomes amount to 176'007.- CHF and the expenses to 182'800.- CHF resulting in a loss of 6'793.- CHF. This is reflected in the balance sheet by a corresponding decrease in asset from 55'745 CHF at the end of 2017 to 48'951 CHF at the end of 2018. This deficit is however less than in the approved budget of 2018. Aurelio had asked the Administration at the EPFL to check the accounts, and they were glad to report no problems. Angela and Susanne Hodler performed the accounts independently, this helped a lot for comparing the entries and the documents to be presented in the official final balance sheet of Ms. Hodler. It did also reassure of the right doing since they found the same results. The Chair notes that we should eventually make an action to have a balance, but that we still have sufficient reserve for the time being. Angela presents the updates of the 2019 budget since at the moment of the approval of the budget it was still unknown at which level the SCNAT would be able to contribute to the CHIPP activities.

### • Auditor's Report

The Chair states that the audit took place on 6 February 2019 in Bern (SCNAT) by the two auditors, Ben Kilminster (UZH) and Aurelio Bay (EPFL), in presence of Angela Benelli (admin.) and Ms. Susanne Hodler (accountant, SCNAT). He conveys the auditor's judgement that the statements fairly represent the financial position of CHIPP and that have been prepared with care. The Chair asks the audience for questions. As there are none, he invites the Board to approve the Annual Report 2018 and to follow the positive recommendation of the auditors by approving the Annual Accounts 2018.

The Board unanimously

- approves the CHIPP Annual Report 2018 to be made publicly accessible on the CHIPP website;
- approves the annual accounts, the balance sheet, and the profit and loss statement for 2018;
- formally discharges the CHIPP EB and the CHIPP administration for the year 2018, expressing at the same time its thanks and appreciation for the careful accounting.

→ Admin.: to make the report accessible and to provide the accounts to SCNAT

Tatsuya Nakada reports about the **news from the Executive Board**.

A National Media Visit is organized in CERN by the Press Office on the 23-24 January 2020. Swiss Journalists as Press officers from Institutes, free-lance journalists, radio journalists, journalists from the Swiss press association can participate. Angela asks the Board to send her a list of possible names. Scientists speaking French and/or German language will be invited to participate at the interviews during the two days.

Felicitas Pauss suggests inviting at the event the SNSF Head of communication.

More details can be found in [this presentation](#) from the CERN press office.

→ Admin.: to collect the journalist names and ask them to save the dates 23-24 January 2020.

Tatsuya reports the **news from the SCNAT**: Ernst Meyer (Uni Basel, condensed matter physics) is succeeding to F.-K. Thielemann as new President of the Platform MAP, while F.-K. Thielemann and R. Durrer are still in the Presidium, all these appointments are for three years.

The CHIPP Database has been fully implemented on the SCNAT server. The Chair thanks R. Bernet (UZH) and S. Schmidlin (IT SCNAT) for their work and help during this transition, the University of Zurich for the valuable support to CHIPP since many years and the SCNAT for accepting to host CHIPP as a member society.

## DISCUSSION ITEMS

### 5. Discussion on the Open Symposium of the European Particle Physics strategy

Tatsuya Nakada reports about the ongoing Update of the European Strategy for Particle Physics. The first major step in the update process is the discussion of the submitted inputs which will take place at the Open Symposium in Granada (Spain) on 13-16 May 2019. The Open Symposium is prepared by the Preparatory Group, where Lenny Rivkin participates in the discussion as a member of the Strategy Secretariat. The group has set a timetable of the talks with sessions reserved for plenary talks and 4 half-days scheduled with up to four parallel sessions.

The Strategy Group will have a first meeting in March when six working groups will be constituted to discuss in parallel with the scientific discussion:

- Social and career aspects for the next generation
- Organizational structure for European participation in global projects
- Relations with external bodies and fields of physics
- Knowledge and technology transfer
- Outreach, education and communication
- Sustainability and environmental impact

With respect to the last Strategy Update the two groups regarding Social and Career aspect and Sustainability and environmental impact are new.

Tatsuya invites L. Rivkin to report on the Symposium organization. Rivkin informs the Board of the remit of the preparatory group as the making program, deciding and inviting the speakers and in particular the production of a briefing book based on the discussion at the Symposium. This briefing book will help during the strategy drafting session in the next year.

The 8 working groups in the scientific part are:

- Electroweak Physics
- Flavour Physics and CP violation
- Dark matter and Dark Sector
- Accelerator Science and Technology
- Beyond the Standard Model at colliders
- Strong Interactions
- Neutrino Physics
- Instrumentation and Computing

All the inputs to the Strategy are public and can be found in: <https://cafpe.ugr.es/eppsu2019/>

A discussion follows about the equilibrium between theoretical and experimental issues to be covered in the Strategy discussion. Future direction of particle physics is uncertain and strategy documents should have a very good balance between theory and experimental ideas.

### 6. FLARE reports

Tatsuya Nakada reports about the FLARE panel meeting he attended on the 29 January 2019. He presented the slides already approved by the Board and PIs with the FLARE requests for 2019-2020. He presented also the landscape of the physics projects in Switzerland. A copy of the presentation is available on the CHIPP website.

Tatsuya asks the board about the impressions the PIs had during the interviews. The general feeling is that the referees at the panel did a very careful and serious job in studying the requests on both the scientific and financial side and that there is a need of reducing the funding especially for the year 2019 by shifting part of the requests to 2020. The panel should conclude quite soon and will report the results in an official way by the end of March. At the FLARE panel meeting CHIPP presented in a clear way the total amount requested, on the contrary CHAPS didn't present the full request.

Tatsuya reports that SERI is preparing for the next FLARE dispatch that will cover the period 2021-2024. At the meeting they had in January, SERI proposed the continuation of the FLARE program, and they requested general comments from CHIPP about the FLARE framework program and what is the projection of CHIPP needs. There was the inquiry on a possibility to extend the scope of FLARE funding to include space experiments, but there is already a dedicated space program and extending the FLARE scope now would generate confusion. Therefore, it was decided not to bring forward this request. However, it is not excluded the possibility to discuss about modifying the current space program funding to cover projects less directly industrial involvement together with the Space Office in the future. We submitted the FLARE tables stressing that this was a current idea of needs, when the real requests will arrive then we will consolidate the tables.

Ben Kilminster comments that it's problematic at the moment financing purely R&D projects, which are not attached approved experiments, it would be important to know how to evolve in the funding requests for this type of projects. Tatsuya explains that R&D projects have a formal problem: FLARE requests should mirror the project of the PI, so if the PI has not a research approved in his experiment framework it's not possible to ask for funding. It's necessary to have an approved project by the SNSF. It's still an open issue how to implement in the new requests these R&D projects. Tatsuya stress that it is important to have a common approach to this problem, not that each PI try to find a temporarily solution. Lenny Rivkin points out that FLARE contained some R&D accelerators activities funded in the past and even if it would be not possible to include them in the next dispatch it is important to start the discussion to allow it for the future.

## 7. CHART updates

Lenny Rivkin is asked to present the updates on the Swiss Accelerator Research and Technology (CHART) collaboration. The [slides](#) can be found on the CHIPP Website.

At the end of last year, a collaboration between PSI, CERN, ETHZ, EPFL and U. Geneva was put together to develop high field magnets and their applications, and more, to secure the future of CERN with the commitments from SERI. The Swiss members of the CHART and CERN agreed a total of 40 MCHF to fund these activities for the next five years.

CHART is, in principle, an international collaboration, but at the moment there has been no official request from other countries to be part of the collaboration.

Felicitas Pass suggests writing an article about CHART and publish it on the SCNAT portal.

## 8. Nominations for CHIPP function & tasks

Tatsuya Nakada reminds the board of the following elections to be held at the next Board or/and Plenary meeting in July:

**IPPOG Swiss representative:** Katharina Müller (UZH) accepted to continue from August 2019 to August 2021.

**CSR (Commission for Space Research) Observer:** Xin Wu (Geneva) accepted to continue from January 2020 to January 2022.

**APPEC Swiss representative:** Teresa Montaruli is the APPEC Chair since January 2019 for this reason she would like to be replaced as Swiss representative. We need nominations for this position. SNSF needs to be contacted and involved in the selection.

**The CHIPP Executive Board (EB)** has currently the following members:

- **Tatsuya Nakada** (Chair) (until Dec 2019)
- Gino Isidori (until Dec 2020)
- **Günther Dissertori** (until Dec 2019)
- Michele Weber (until Dec 2020)

Gunther Dissertori has been appointed Swiss delegate to the CERN Council, for this reason he would like to step down as a EB members. We need nomination for this position.

Tatsuya Nakada arrives at the end of his mandate as CHIPP Chairman in December 2019. He is also member of the European Strategy Group, he was elected with a reason of being the CHIPP Chair (decision

of the Board 2018-02). The process of the Strategy Update has already started and there are important meetings this year and basically finishes already with the Strategy drafting meeting in January next year. It would be difficult for the new CHIPP Chair to participate effectively since the new Chairperson would start in January 2020.

Günther Dissertori chairs the discussion when Tatsuya Nakada leaves the room.

Three possibilities have been discussed:

- 1) Decouple the EB Chair and Swiss delegate to the Strategy Group for the last couple of months of its activity.
- 2) Extend the EB Chair mandate of Tatsuya till the end of the Update process.
- 3) Ask Tatsuya to step down from the CHIPP chair immediately and make a new election for CHIPP chair who will starts right away.

When Tatsuya was elected as Swiss delegate to the Strategy Group, everybody knew that he would end his mandate as CHIPP Chair at the end of 2019. And he was elected for his experience and the Board would like him to continue: In conclusion,

the Board decides to decouple the CHIPP Chair position from the Swiss representative at the European Strategy Group and Tatsuya to continue as Swiss delegate for the Strategy Group till its activity finishes. The Board decides to proceed with an election of two EB members and its Chair who will start from January 2020.

**Plenary-ECFA representative:** Domenico Della Volpe (U. Geneva) accepted to continue from January 2020 to December 2022. This is an election to be held by the CHIPP Plenary under the recommendation of the Board.

## INFORMATION ITEMS

### 9. New chair of the CHIPP Prize committee & CHIPP Prize 2019

Gino Isidori reports on the decisions taken about the CHIPP Prize as a new Committee Prize Chair.

**Selection Committee:** G. Isidori (UZH, chair), A. Bay (EPFL), A. Blondel (UniGE), R. Eichler (ETHZ).

**Prize:** 3000 CHF

**Application deadline:** 14 April 2019

All PhD students or former PhD students may apply for the prize if:

- 12 months before the application deadline candidate was still affiliated to CHIPP
- if the candidate did pass their final PhD thesis defense it should be in the 12 months before the deadline.

**Award ceremony:** The SPS proposes to host the award ceremony (and the related talk of the awardee) at the SPS annual meeting, that this year will be in Zurich Irchel (27-30 August).

Gino Isidori proposes to announce the winner at the CHIPP plenary (1-3 July) and postpone the ceremony and the talk at the SPS.

The Board decides to announce the winner at the CHIPP plenary (1-3 July) and postpone the ceremony and the talk at the SPS.

### 10. CHIPP PhD Winter School 2019

Florenca Canelli reports about the CHIPP Winter School, her [slides](#) are available on the CHIPP Website. The School fees were a bit more expensive than last years because more lecturers were invited and because the funds from the University that were available in the past were not available anymore. At the end, it turns out we spent less than we budgeted so the funding contribution from CHIPP will be less than that foreseen. Lukas Gerritzen (ETHZ) from The Mu3e experiment won 200 CHF for the best poster. It was a very successful school.

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

EPFL and PSI opened a [joint position](#), who is expected to play a major role in the CHART activities, as “Head of the Division of Large Research Facilities at PSI and Professor of Particle Accelerator Physics at EPFL”. It’s a full professorship position and the deadline of the application is the end of March. ETHZ is evaluating the possibility to open a position on accelerator physics also connected with CHART.

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

Next Board and Plenary meeting will be held in Kandersteg the 1-3 July, please encourage your PhD and PostDoc students to participate.

A Doodle will be sent out soon for the Board in October.

## **13. CHIPP Plenary meeting 2019**

At the Board and at the Plenary meetings we will have a discussion on the European Strategy, since after the Granada Symposium, we have to prepare for the drafting session of January 2020. We have invited the ECFA Chair Jorgen D’Hondt to present the status of the European Strategy update process.

The Plenary meeting website is ready, and the registrations are open: <https://indico.cern.ch/event/784774>  
The deadline for the registrations of the meeting is set to the 15 June, for the Accommodations at the Hotel Victoria the deadline is the 2 June.

## **14. A.O.B.**

Tatsuya Nakada added another point to the agenda he would like to discuss. Some articles appeared in Horizons in a special number for “[Big Science](#)” about CERN and our type of research with large infrastructures. Horizons is a magazine that is linked from the SNSF website. The journalist was comparing different fields of research. There were errors in the images and in general the article was misleading. The EB was wondering if CHIPP should give a response to the article. SERI is planning to publish some articles about the positive aspects of large infrastructure research. Maybe a letter to the editor could be sent from CHIPP to be published, or a letter directly to the journalist explaining what was incorrect. CHIPP should plan an action about this.

## **Swiss participation in CTA**

Gino Isidori and Florencia Canelli report that there was a decision at the level of the Zurich physics institute to progressively reduce the involvement in the hardware activities for CTA, while keeping the involvement in the science part, given no permanent professor at the moment is interested in the former. This is the conclusion that the faculty has presented to the University Rectorat. The institute also made a request for a new professorship in the field of astroparticle in the area of multi-messenger research. The new professor could be interested in CTA. The University Rectorate could decide differently from the conclusion of the Institute. For the moment they asked only a bottom up input. The Institute set its preference, but it’s not clear if it will be accepted.

Giuseppe Iacobucci reminded us that at the University Geneva there is an important involvement in CTA, with one full Professor (Teresa Montaruli) working on it and it’s foreseen to create a position of Associate Professor to work on CTA before 2022.

SERI wants to be sure that there is a valid Swiss contribution to collaborate in the new ERIC structure that will be created for CTA. For this reason, SERI contacted the original universities that were involved in CTA: U. of Zurich and U. of Geneva.

Rainer Wallny explains that in ETHZ there is already a Professor who is active in Astroparticle Physics, and it would be possible in principle to increment his resources to be more effective in CTA as part of a national strategy. However, ETH considers that it should be the effort of other Institutes to increment the Swiss participation in CTA.

Tatsuya Nakada adds that there is also the issue of increasing interest in participating in Gravitational Waves Experiments which would also require resources.

The Board agreed that the CHIPP Chair would organise meetings with the relevant CHIPP Board members to gain a better understanding of the situation and find a possible solution in consultation with SERI.

## **APPEC NEWS**

Teresa Montaruli presents the news from APPEC via the videoconference. Her [slides](#) can be found on the CHIPP website. In particular, Teresa would like to announce the Joint Seminar APPEC-ECFA-NUPPEC (14-16 Oct. 2019, Paris), the invitations are primary sent via email to the members of the three organizations involved. It is very important that the invited people register quickly, in this way in June the invitations will be extended outside the three organizations.

Teresa asks the Board to nominate one early career scientist in the domain of APPEC before the 11 March. The candidate could be a PostDoc or a scientist that is not already in the ten-year track. She/he will be in charge during the Workshop of the presentation of posters and to give a statement at the end of the summary talks. Suggestions about the Program of the Workshop will be very welcomed, and please communicate any names of scientists to provide talks during the workshop.

Teresa is APPEC chair for two years, for this it would be important to find another Swiss representative to APPEC. The CHIPP elections will be in July, so CHIPP needs to have nominations for candidate to start in August, till then Teresa will keep her double role.

→ Teresa Montaruli: to discuss with the SNSF about it.

## **AGORA proposal: ORIGIN – a situation analysis**

Günther Dissertori reports about the requests of funding to the SNSF for an Outreach project. His [slides](#) are available on the CHIPP website. Günther Dissertori has started the request for funding the first analysis on the project with some colleagues: K. Müller, HP Beck, M. Hoch and M. Furler, for the moment is restricted to Particle Physics community but later will be extended to other people and to other physics communities. It should also be considered if other foundations could fund this type of big project.