

Minutes of the Board meeting 2018-03 on 16 October 2018

Time of the meeting: 16 October 2018 from 13:15 to 16:00

Place of the meeting: BERN, SCNAT, House of Academies, Laupenstrasse 7, 3008 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 without any modification.

ADMINISTRATIVE ITEMS

2. Apologies and Proxy votes

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

Present: Bay, Beck, Dissertori, Grab, Hildebrandt, Isidori, Kirch, Kotlinski, Kreslo, Mermod, Nakada (Chair), Piegsa, Rivkin, Schneider, Sfyrla, Spira, Weber.

Electronic vote: Laine, Krusche, Pozzorini, Reffert.

Other participants: Benelli (Admin.), Minkowski (Prof. em.), Türler (Obs. SCNAT), Werder (Obs. SNSF), Vögeli (Obs. SERI).

The Chair details the proxy votes announced before the meeting¹.

Quorum: 22 votes (= 1/3 of the Board members; Art. 24.1 Statutes); Votes present: 17 + 6 proxies + 4 e-votes = 27 → The quorum is reached.

The following Board members sent their apologies: Federico Sanchez, Xavier Reymond, Laura Baudis, Maurice Bourquin, Andreas Schopper.

Tatsuya Nakada thanks Stephanie Vögeli for her presence at the meeting today as replacement for Xavier Reymond from SERI. The Chair reminds the Board that Bruno Moor will retire at the end of October from SERI, Dr. Gregor Häfliger, who is now the Delegate for International Research Organisations will be invited to become observer to the CHIPP Board. Marc Türler, who from the 1st October is the Head of the Platform MAP at the SCNAT, is asked to become officially the SCNAT observer together with Jürg Pfister, the Secretary General of the Swiss Academy of Sciences.

For the SNSF the observer is Thomas Werder who is the Head of SNSF Division II - Mathematics, Natural and Engineering Sciences.

3. Minutes of the last meeting (2018-02 [August 2018])

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.

¹ Malte Hildebrandt (for *Stefan Ritt*), Michael Spira (for *Adrian Signer*), Günther Dissertori (for *Rainer Wallny*), Michele Weber (for *Giuseppe Iacobucci*), Anna Sfyrla (for *Tobias Golling*), Tatsuya Nakada (for *Martin Kunz*)

DECISION ITEMS

4. Report on the SWICH Workshop in Fribourg

Tatsuya Nakada reports on the CHIPP document to be submitted as input to the European Strategy. As decided at the SWICH Workshop in Fribourg, 13-14 September, Tatsuya Nakada was asked to prepare a first guideline of the ESPP document to submit to the Editorial as a basis for starting the editorial work. The Executive Board together with the three Pillar moderators (Michele Weber, Rainer Wallny and Ruth Durrer) has decided to discuss only scientific issues in the ESPP document; to concentrate on the issues related to the future facilities and to remain very short without too much discussion of scientific details. Following these general directives Nakada has produced the first draft. This draft contains the main decisions taken at the SWICH Workshop as discussed in the final session.

The document starts with a brief introduction of CHIPP and the process for producing this document. It then presents the issues in the current Strategy with a remark that the strategy is followed rather well up to now.

Following on, the priorities discussed at the Workshops are presented, starting with LHC exploitation then the situation with the R&D and design studies for the Energy frontier machines, the importance of the CERN neutrino platform, the importance of moderate CERN investment in non-collider facilities, the importance of national laboratories and the strong Swiss involvement in astroparticle experiments.

A brief discussion follows on the importance of expressing clearly what are the main points of interests for the Swiss researchers and what are the more general guidelines that Switzerland considers important for Europe to pursue in the Particle Physics field.

The editorial board will be asked to pay particular attention when presenting the long-term future facilities designed to go beyond the 10 TeV energy scale. Several examples of future facilities that may be built inside or outside Europe should be considered in the document.

Anna Sfyrta asks to reintroduce the importance of supporting computing into the document since otherwise there is the risk of experimental physics being limited by insufficiently performant computer infrastructure. The same is stressed for theory; it is important to support theorists in order to complement and accompany the experiments and thus ensure a path for the future.

Triggered by the comment by Guenther Dissertori, there was a discussion on whether and how the linear collider and muon collider issues should be mentioned in the document.

5. CHIPP activities and Budget 2019

Angela introduces the planned activities and budget for the year 2019. As in the past CHIPP has a list of planned activities in the following themes: science, communication and outreach, funding and association. The presented budget has a planned expense of 150 KCHF covered by the income of 80 KCHF from membership fees, 20 KCHF of support for the EPPCN from SERI and CERN, and hopefully around 34 KCHF of support from the SCNAT; at the time of this meeting the amount of SCNAT support is still not finalized. The main activities for this year will be the PhD Winter School, the PSI Workshop and the CHIPP Plenary meeting during summer 2019. CHIPP will continue its engagement on the SCNAT web portal, publishing news, articles and events of interest for the physics community thanks to the collaboration with Benedikt Vogel. His remuneration together with the IPPOG membership should be covered in part by a SCNAT grant. A deficit of around 14 KCHF is foreseen. This can be supported by the estimated start of year assets of ~45 KCHF. In the future CHIPP will have to revise the membership fees for its members since its assets are decreasing and they will reach a problematic level in three or four years. For the moment, the EB proposes to keep the same membership fees as in the past, 110 CHF for individuals and 5600 CHF for each institute, apart from Basel that has a reduced fee of 2000 CHF.

The Board unanimously:

Approves the CHIPP activities for 2019,

Approves the CHIPP budget 2019 as resulting from the activities, and

Approves the 2019 membership fees for individual members and for institutions.

DISCUSSION ITEMS

6. FLARE funding requests

Tatsuya Nakada reports about the meeting held last 11th October at the SCNAT with the FLARE PIs. He reminds the Board that the FLARE funding available for the 2017-2020 period for particle physics and astronomy is 32 MCHF. The funding has already granted sums totalling 18.7 M for the particle physics projects and 2.9 M for those in astronomy. From past experience we can estimate that around 20% of the total budget will be for Astronomy; that would leave between 7 and 8 MCHF for the particle physics part to be granted in 2019-2020. The requests up to now total 9.07 M (that at the moment of the minutes writing is decreased to 8.8 MCHF) which looks reasonable. The funding request from the Mu3e experiment was indicated to start in 2020, but since there will not be a call for requests in 2020 this request is postponed to 2021.

The Chair presents the FLARE summary table, with the adjustments decided during the last PIs meeting. For the moment he focuses the discussion on the 2019-2020 requests. He presents the Professors FTEs that Angela has collected for the year 2019 for each experiment. Some of the FTEs are still inaccurate or missing.

The Chair has been asked by the FLARE panel to give a CHIPP priority for the funding. Tatsuya presents a preliminary list where LHC M&O and computing is indicated as the top priority. M&O has already been granted for 2019-2020, leaving only the LHC computing. As a second priority there is the LHC upgrade. It concerns only CMS for the 2019-2020 request, since the ATLAS request has already been granted for 2017-2020. Then the list is divided in the following three categories:

Running experiments and upgrades, (in particular completing in 2020): NA61, GERDA, SBN, T2K, XENON

R&D: DUNE

New entries: nEDM, DAMIC, NA64

There is a discussion about the meaning of having priority for the three categories, i.e. why not all be at the same level. Klaus Kirch feels that it should be stressed to the FLARE committee the importance of continuing to support the projects for which they have already engaged in the past as well as funding new experiments that will ensure a diversification of the physics portfolio. He insists in the importance of sending them the message to consider in their evaluation the percentage of the Swiss community involved in each project. With this in mind it is important to correctly report the professor and senior staff involved in each experiment. They give a relatively stable measure of the Swiss commitment in the experiment and this is a factor that should be taken into account in deciding the funding priorities.

The longer term (2021-2024) funding requests sum up to 29.307 MCHF. If we suppose that the amount of funding will be the same in the next round as this current round, there should be around 26M CHF available for particle physics. It is to be expected that Astronomy will ask for more in the next round. CHIPP needs to discuss the priorities to present for the next round.

The Chair reminds the board that the FLARE program aims at facilitating the development, construction, maintenance and operation of research infrastructures for ground based major international experiments. Space based astroparticle experiments are not eligible for FLARE funding; only projects accepted for SNF project funding can be considered

The Chair announces that the FLARE panel will take place on the 29 and 30 January 2019 and the PIs should reserve those days since they will be asked to make a short presentation (as the last time).

7. Computing steering board

Christoph Grab explains that since he is going to retire he can no longer continue as PI for the Computing FLARE requests. He will prepare anyway all the documentation and help the other PIs that are co-applicant to the funding. He proposes that Mauro Donega should be the Computing PI and take care of it in future.

The Board approves the decision to have Mauro Donega (ETHZ) as Computing PI, this decision is effective immediately.

8. CHIPP plenary meeting 2019

Angela reports about the organisation of next year's CHIPP plenary meeting. The EB has evaluated different proposals and decided on the "Belle Epoque Hotel Victoria" in Kandersteg (Kandersteg is a high-altitude resort village in the Bernese Oberland region of Switzerland). The meeting will be held from the 1st to the 3rd July 2019. Angela will visit the venue in January to make sure that it will be a suitable place for hosting up to 80 participants.

INFORMATION ITEMS

9. New professorships at CHIPP institutes: report from each institute

The only new professorship is at the EPFL: Olivier Schneider explains that a position of Assistant professor has been filled by Lesya Shchutska, she will start in April 2019 and will join the LHCb experiment.

ETHZ and EPFL will both open, sometime in the near future, a position for a Professorship in the Accelerator field.

10. Next CHIPP Plenary and Board meetings

A Doodle will be sent out soon to decide a convenient date for next Board meeting.

11. A.O.B.

The 31st October is Dark Matter Day, for this occasion the University of Zurich and the Planetarium of Luzern are organising an event. Details are in: [link](#).