

Minutes of the Board meeting 2022-02 on 27 June 2022

Time of the meeting: Monday, 27 June 2022 at 9H15
Place of the meeting: University of Fribourg
Indico page: <https://indico.cern.ch/event/1166874/>

Welcome and agenda

Michele Weber, the CHIPP chair, welcomes the Board members, the honorary Board members, and the observers to the Board. Michele welcomes the new Board members: Aldo Antognini (ETHZ), Davide Sgalaberna (ETHZ) and Domenico Della Volpe (UniGe).

ADMINISTRATIVE ITEMS

1. Apologies and Proxy votes

Board members with voting rights (as of 15 June 2022): 70

Present: Beck, Botta, Canelli, Crivelli, Donega, De Cosa, Grejio, Golling, Grazzini, Hildebrandt, Kilminster, Kirch, Marinkovic, K. Müller, Schneider, Schramm, Seidel, Sfyrla, Shchutska, Spira, Sanchez-Nieto, Stoffer, Wallny, Weber (Chair), Wu.

Other participants: Benelli (Admin.), Salzarulo (Obs. SERI), Barras (Obs. SNF) Türlér (Obs. SCNAT)

The Chair details the proxy votes announced before the meeting¹.

Quorum: 24 votes (= 1/3 of the Board members; Art. 24.1 Statutes); Votes present: 25 present + 7 proxies = 32

The quorum is reached.

2. Minutes of the last meeting (2022-01) [21 February 2022]

The Chair asks for comments concerning the minutes of the previous meeting. Since there are none, the Chair invites the Board to approve them. The minutes are approved and will be published on the [CHIPP](#) website.

DECISION ITEMS

3. Election of two Executive Board members and of the CHIPP Chair

Michele Weber and Gino Isidori finish their term in Dec 2022. Several nominations were received and after consultation with the candidates Michel Spira and Paolo Crivelli are running for election for the function of vice-chair. The Chair asks them to present their backgrounds and motivations; their CVs [1] are available. Spira has been a Senior Scientist at PSI since 2000 and is Group Leader of the Particle Physics Theory

¹ Malte Hildebrandt for Stefan Ritt, Michele Weber for Saverio Braccini, Rainer Wallny for Günther Dissertori, Klaus Kirch for Berndhard Lauss, Cristina Botta for Lea Caminada, Peter Stoffer for Adrian Signer, Ben Kilminster for Gino Isidori.

[1] <https://indico.cern.ch/event/1166874/timetable/#20220627>

group at PSI. His research activity is mainly focused on LHC physics, supersymmetry, leptoquark and Higgs studies. He is also involved in the low energy programs at PSI giving him a complete vision of theoretical particle physics.

Paolo Crivelli works on NA64 and GBAR experiments and has been spokesperson of the MuMass experiment at PSI since 2019. Since 2020, he has been Professor at ETHZ. He thinks CHIPP is an amazing tool that allows particle physicists to coordinate priorities, activities, and outreach events. He has a long experience working in small experiments, giving the CHIPP EB a full view on different organisational requirements.

The Board elects Paolo Crivelli (ETHZ) for a 1st EB term from 1 January 2023 to 31 December 2024 unanimously.

The Board elects Michel Spira (PSI) for a 1st EB term from 1 January 2023 to 31 December 2024 unanimously.

After reviewing nominations for the position of CHIPP chair, the EB proposes Ben Kilminster to serve in this role for one term.

The Board elects Ben Kilminster (UZH) as CHIPP Chair from 1 January 2023 to 31 December 2024 unanimously.

4. Nomination for election of one Swiss Plenary-ECFA representative

ECFA: European Committee for Future Accelerators

The election of the Swiss representatives in ECFA belongs to the CHIPP Plenary, based on a recommendation by the Board. (Article 19, litt. e). The present Swiss representatives in ECFA are:

- **Mike Seidel** (PSI & EPFL), Restricted ECFA and Plenary ECFA member until Dec 2024, 2nd term
- **Frédéric Blanc** (EPFL), Plenary ECFA member until Dec 2024, 2nd term
- **Domenico della Volpe** (Uni. GE), Plenary ECFA member until Dec 2022, 2nd term
- **Philipp S. Wellenburg** (PSI), Plenary ECFA member until Dec 2024, 1st term

Domenico della Volpe finishes his second term and cannot be renewed; the call for nomination ended with the nomination of Annapaola de Cosa (ETHZ); she accepted to stand for election.

The Board votes and submits to the Plenary for election:

Annapaola de Cosa (ETHZ) Plenary ECFA for a 1st three-year term (Jan. 2023 – Dec. 2025)

5. Nomination for election of the ACCU representative

ACCU: Advisory Committee of CERN Users

The election of the Swiss representatives in ACCU belongs to the CHIPP Plenary, based on a recommendation by the Board. (Article 19, litt. e)

Sergio Gonzalez Sevilla has served for one two-year term as ACCU representative from 2021 to the end of 2022. Sergio Gonzalez Sevilla (University of Geneva) has accepted to serve in this function for another term.

The Board unanimously recommends to the Plenary the election of Sergio Gonzalez Sevilla for a second two-year term from January 2023 to December 2024 as ACCU representative.

6. Re-election of the ECT* representative

The ECT* (European Centre for Theoretical Studies in Nuclear Physics and related areas)

The Chair reminds the Board that CHIPP is a member of the ETC* with the support of SNF which funds the membership fees. Gilberto Colangelo (University of Bern) promoted the Swiss participation in ETC* in August 2017 when he presented his proposal to the CHIPP Board (Board 2017-02). Colangelo accepted to serve for a third term.

The Board unanimously re-elects Gilberto Colangelo for a second term as ETC* Swiss representative from September 2022 to September 2024.

7. Re-election of the Education and Outreach representative

Katharina Müller (University of Zurich), served in this function for the years 2021-2022. She accepted to continue in her function for another term. Katharina Müller is not a CHIPP Board member, but due to the importance of this role - following Art. 22 par. 2 of the bylaws – the EB asks the Board to elect her as ex-officio member of the board for the duration of her function.

The Board unanimously elects Katharina Müller for a second term as CHIPP Outreach and Education coordinator (Jan 2023 – Dec 2024); for the duration of her function the Board unanimously elects Katharina Müller as a CHIPP Board member.

DISCUSSION ITEMS

8. Flare round 2022

The chairman reminds the Board of the three categories defined in the priority document written in 2020 and presents the experiments that fall in each category. In 2020 we foresaw that we could update the document in 2022 in view of the second call (for two years) and that we would not make major changes because we agreed that the three categories and the main strategy was valid for the four years. The Board agreed that, if necessary, we could revisit the document, for example if there are smaller experiments (fair-share category) that need minor modifications in the funding requests.

NA64 is one of these experiments that has a new funding request for 2022-24; DAMIC has updated the plans and does no longer ask for FLARE funds; FASER asked only for 3 years, and it does not have requests for the fourth year.

The prioritization document will be fully updated for the funding requests of 2025-28, assuming that FLARE continues. Michele presents the summary of the FLARE tables we collected in view of 2023-24 call. In the summary table the original number present in the prioritization document of 2020 is reported, along with the funds that were requested and what were granted. For the experiments that have not submitted requests, or were not granted, for 4 years, it is possible to submit another request for 2023-24. Michele shows the total expected funding requests for the full period 2021-24.

Steven Schramm asks if the Einstein Telescope project could enter in the fair-share category for 2025-28; the Board decides that it be discussed in CHIPP and with CHAPS to evaluate if and how to share the funding for it.

The Board asks about the low request from SHiP. SHiP is already in the CHIPP priorities. It does not need to hold its place, so it must be evaluated whether it is better to shift the low request for 2023-24 to the next funding period 2025-28.

The Board asks Paolo Crivelli to explain the new request for the NA64 experiment. Paolo explains that Flare 2018-2019 supported NA64 in 2018-2019, but they did not apply for funds in 2020-2022, waiting for relevant running time and upgrade decisions. In 2021 and early 2022 beam time was used to demonstrate the physics reach of further running with a new setup. The ETHZ group plays a major role in the experiment and its upgrades (trigger and tracking system) planned for this further running, and this is the suggested contribution to come from FLARE in 2023-2024 (and could extend to 2025-2028).

The Board asks about the T2K request. Everywhere it is stated T2K in the plots shown, we should read T2K and HyperK. The request given by T2K/HyperK is higher than stated in the priority document, Federico Sanchez explains that the program was not very well defined in 2020. The Swiss contribution was better defined in 2022. There is also an increase in the cost of some of the contributions due to the world economy.

Summary plots for funding are shown, which can be found on the reserved page for the Board meeting in Indico.

9. Implementation of the European Particle Physics Strategy Update

An FCC Workshop was organized at the end of last year (part [1](#), part [2](#)). Several discussions and meetings have followed since the European Particle Physics Strategy is ramping up at CERN. CHIPP believes that Switzerland would profit from having a structure to channel the efforts towards the FCC. This structure should be integrated into the overall European strategies and would avoid single PIs from having to prepare a suitable frame for the funding agencies.

The idea would be to create an organization analogous to CHART (which is specific for the accelerator research and technology) but dedicated for the detectors. Anna Sfyrta proposed the name CHEF: Swiss Experimental research for the FCC. CHEF would maintain international visibility of the Swiss groups and serve as a center to enable the coherent strategy to be discussed and defined between Swiss institutions. The EB, in collaboration with selected CHIPP members, is preparing a few pages to present the project to SERI. Participation from Board members is welcome. SERI needs an initial summary soon as part of the overall SERI 2025-28 Roadmap process.

There will be a second FCC workshop organized at the end of August 2022 at the University of Zurich where a more detailed outline of CHEF will be prepared.

INFORMATION ITEMS

10. SCNAT funding requests:

DIALOG

IPPOG membership

Winter School 2023

Sustainability Workshop

Higgs@10 events

Support for the Film Ghost particle

11. CHIPP/CHAPS Gravitational Waves

Steven Schramm reports on the Gravitational Waves Working Group. At the University of Geneva, the Gravitational Wave Science Centre (GWSC) has been formed from the collaboration of astronomy, particle physics and theoretical physics departments. Zurich University is hiring a professor who will be on space gravitational waves.

Steven reminds us that just under a year ago the Einstein telescope (ET) was approved as an as ESFRI project and was included in the European road map for future research infrastructures.

ET is a next generation underground based observatory, about 200 meters underground. Switzerland is involved in two grants on this project: INFRA-DEV for setting up the legal and project framework of the Einstein telescope and INFRA-TECH for the technology development. This last one is on multi messenger technology development, not only gravitational waves, so there's CTA and MAGIC and ET together with Virgo, KM2Net and ELI. Switzerland has key roles both in CTO, MAGIC and ET.

ET is now a formal collaboration, which was launched in Budapest the 7-8 June 2022.

A CHIPP/CHAPS meeting was held last week and soon another meeting will be organized to make sure there are synergies between CHIPP and CHAPS communities.

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

13. A.O.B.