



# CHIPP Board meeting

Welcome to the:

- Board members
- Honorary Board members
- Observers at the Board

New Board members:

Steven Schramm (UniGE, DPNC)

New future Board member:

Marina Marinkovic (ETH Zürich, ITP)

# Agenda item 1: Agenda

- The final Agenda has been distributed on 1 June
- All documents have been made available on a confidential CHIPP internet page.
- Indico: <https://indico.cern.ch/event/1028344/>

➔ Agenda approved ?

## DECISION ITEMS

- |  |                 |
|--|-----------------|
| <b>4. Election of two Executive Board members and of the CHIPP Chair</b><br>for approval                         | <b>Proposal</b> |
| <b>5. Election of the CHIPP Computing Board Chair</b><br>for approval  | <b>Proposal</b> |
| <b>6. Nomination for election of two Swiss Plenary-ECFA representatives</b><br>for recommendation to the Plenary | <b>Proposal</b> |
| <b>7. Re-election of a CHIPP Auditor</b><br>for approval   | <b>Proposal</b> |
| <b>8. Election of the APPEC General Assembly scientific delegate</b><br>for approval                             | <b>Proposal</b> |
| <b>9. Re-election of the CSR representative</b><br>for approval  | <b>Proposal</b> |
| <b>10. Re-election of the IPPOG representative</b><br>for approval   | <b>Proposal</b> |
| <b>11. Election of the CHAPS representative</b><br>for approval  | <b>Proposal</b> |
| <b>12. Nominations for admission of new honorary members</b><br>for recommendation to the Plenary                | <b>Proposal</b> |
| <b>13. Nominations for Swiss Scientific Delegate to CERN</b><br>for recommendation to SERI                       | <b>Proposal</b> |

## DISCUSSION ITEMS

14. **Third party funding for Swiss Particle Physics**  
for discussion

[RW]

## INFORMATION ITEMS

15. **SCNAT funding requests:**

**DIALOG**

**IPPOG membership**

16. **CHIPP Computing Board updates**

[Mauro Donega]

17. **AGORA (SNSF) funding of Outreach project**

[Katharina Müller]

18. **SPS/OPG joint annual meeting in Innsbruck**

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

20. **A.O.B.**

# Agenda item 2: Proxy Votes

- ❑ The following Proxies have been designated:
  - ❑ Gino Isidori *for Stefano Pozzorini*
  - ❑ Ben Kilminster *for Laura Baudis*
  - ❑ Florencia Canelli *for Cristina Botta*

## Agenda item 2: Apologies & Quorum

- ❑ The following apologies have been received:
  - ❑ Board members with voting rights: 69
  - ❑ Quorum (1/3 of Board): 23 votes, reached ?
  - ❑ Allow email vote by remote participants (Corona exception)

# Agenda item 3: Minutes of the last meeting

- Final draft minutes of the CHIPP Board 2021-01 (11 Feb 2021) have been made available on [www.chipp.ch](http://www.chipp.ch) together with the other Board documents
  - ➡ **The Board is invited**
    - **to approve** the minutes of the last meeting
      - Base: Art. 27, litt. a; simple majority

# Agenda item 4: Election of two EB members

The present composition of the CHIPP EB is the following:

- Rainer Wallny (Chair), until end 2021
- Anna Sfyrla (Vice-Chair), until end 2021
- Gino Isidori (Vice-Chair), until end 2022
- Michele Weber (Vice-Chair), until end 2022

Rainer Wallny and Anna Sfyrla finish their term in Dec 2021, the candidates for the function of vice-chair in the CHIPP EB are:

**The Board** (applying Article 27, litt. e of the Statutes) is invited

➤ **to elect Ben Kilminster (UZH)**

for a 1<sup>st</sup> EB term from 1 January 2022 to 31 December 2023



➤ **to elect Tobias Golling (UGe)**

for a 1<sup>st</sup> EB term from 1 January 2022 to 31 December 2023



Required majority: simple

# Agenda item 4: Election of the CHIPP Chair

The composition of the next CHIPP EB is the following:

- Tobias Golling (Vice-Chair) 1<sup>st</sup> term until end 2023
- Ben Kilminster (Vice-Chair) 1<sup>st</sup> term until end 2023
- Gino Isidori (Vice-Chair), 2<sup>nd</sup> term until end 2022
- Michele Weber (Vice-Chair) 3<sup>rd</sup> term, until end 2022

the candidates for the function of CHIPP Chair is:

Michele Weber (Uni Bern)

**The Board** (applying Article 27, litt. e of the Statutes) is invited

- **to elect** Michele Weber (Uni Bern) as CHIPP Chair  
from 1 January 2022 to 31 December 2022



Required majority: simple

# Agenda item 5: Election of a Computing Board Chair

Mauro Donegà is the CHIPP Computing Board Chair since Jan 2019, his term finishes in Dec 2021, he agreed to continue serving as CHIPP Computing Board Chair.

**The Board** (in conformity with Article 27, litt. e) is requested

➤ **to elect**

**Mauro Donegà**

as CHIPP Computing Board Chair from Jan 2022

to December 2024



Required majority: simple

## Agenda item 6: re-election of a two ECFA members & election of a new ECFA Plenary member

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.

□ The present Swiss representatives in ECFA are:

**Mike Seidel** (PSI), Restricted ECFA and Plenary ECFA member until Dec 2021, 1<sup>st</sup> term

**Frederic Blanc** (EPFL), Plenary ECFA member until Dec 2021, 1<sup>st</sup> term

**Domenico della Volpe** (Uni. GE), Plenary ECFA member until Dec 2022, 2<sup>nd</sup> term

**Andreas Knecht** (PSI), Plenary ECFA member until Dec 2021, 2<sup>nd</sup> term

# Agenda item 6: re-election of a two ECFA members & election of a new ECFA Plenary member

## The Board is invited

to submit to the Plenary the proposals of:

- the re-election of **Frederic Blanc** (EPFL), Plenary ECFA for a 2<sup>nd</sup> three-year term (Jan. 2022 – Dec. 2024)
- the re-election of **Mike Seidel** (EPFL/PSI), Restricted and Plenary ECFA for a 2<sup>nd</sup> three-year term (Jan. 2022 – Dec. 2024)
- the election of **Philipp Schmidt-Wellenburg** (PSI), Plenary ECFA for a 1<sup>st</sup> three-year term (Jan. 2022 – Dec. 2024)



# Agenda item 7: Election of a CHIPP Auditor

Saverio Braccini (University Bern) and Ben Kilminster (University Zurich) are serving as auditors. Ben Kilminster finishes his mandate in June 2021.

**The Board** (in conformity with Article 27, litt. e) is requested

➤ **to elect**

**Ben Kilminster (University Zurich)**

as CHIPP account auditors for a three-year mandate from  
Jun 2021 to Jun 2024.

**Postponed to**  
**the October Board**

Required majority: simple

# Agenda item 8: Re-election of the APPEC General Assembly scientific delegate

The election of the **APPEC General Assembly scientific delegate** belongs to the CHIPP Board.

**The Board is invited  
to re-elect**



**Xin Wu** for a second term (Jan 2022 – Dec. 2023) as APPEC General Assembly scientific delegate.

Required majority: simple

## Agenda item 9: Re-election of the observer in the Committee on Space Research (CSR)

The election of the observer in the Committee on Space Research (CSR) belongs to the CHIPP Board.

**The Board is invited  
to re-elect**



**Xin Wu** (University of Geneva) for 4<sup>th</sup> term (Jan. 2022 – Dec. 2023)  
as CSR representative.

Required majority: simple

# Agenda item 10: Election of an International Particle Physics Outreach Group (IPPOG) Swiss representative

The election of the Swiss representatives in the (IPPOG) belongs to the CHIPP Board.

**The Board is invited**



➤ **to re-elect**

**Katharina Müller** (University of Zurich) for a 3<sup>rd</sup> term (Sep. 2021 – Sep. 2023) as IPPOG Swiss representative.

Required majority: simple

# Agenda item 11: election of the Swiss observer to the College of Helvetic Astronomy Professors CHAPS

The EB noted also that the exchange of observers between two SCNAT members is in line with the provisions of the CHIPP Statutes (Article 32.3 litt. g), where a close contact is advocated between CHIPP and the Swiss Academy of Natural Sciences and its member organisations.

For this reason, the CHIPP EB asked for nomination for a candidate to be observer to the CHAPS for the period Jan 2022 – Dec 2024; the call has provided an available candidate Martin Kunz (U. Geneva) who is available to serve.

**The Board is invited**



➤ **to elect**

**Martin Kunz (University Geneva)** as CHIPP observer in the College of Helvetic Astronomy Professors for a renewable three-year mandate from January 2022 to December 2024.

Required majority: simple

# Agenda item 12: Nominations for admission of new honorary members

Between August 2019 and August 2020, the CHIPP Chair has received the following request for Honorary Membership:

Request for Honorary Board Member:

**Mikhail Chapochnikov (EPFL)**

**The Board** (applying Article 27, litt. i of the Statutes) is requested:

- **to take note** that the applicant fulfil the requirements for being granted the status of Honorary Membership according to the Statutes;
- **to submit** to the Plenary Session the proposals of Honorary Membership of the person listed above, thereby recommending the admission in this category.



Required majority: simple

# Agenda item 13: Nominations for Swiss Scientific Delegate to CERN

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, as mentioned in the CHIPP Statutes (Article 27, litt. m) the Board can nominate the candidate(s) for the appointment by SERI.

## The Board is invited

- to recommend to SERI Rainer Wallny and Florencia Canelli as candidates to be scientific member of the Swiss delegation to CERN Council from 1 January 2022 to 31 December 2024.



# Agenda item 14: Third party Funding for Swiss Particle Physics

## Goals

### **Article 3\***

- <sup>1</sup> *The purpose of the Association is to strengthen particle, astroparticle and nuclear physics in Switzerland by being active in particular in the following fields:*
- a. *To help towards a successful participation of Swiss groups in projects;*
  - b. *To advise the Universities/ETHs on vacant professorships and academic strategies, and coordinate teaching activities;*
  - c. *To ensure a proper Swiss representation in relevant national and international bodies;*
  - d. *To promote public awareness on particle, astroparticle and nuclear physics.*
- <sup>2</sup> *In striving for these goals, the Association may conclude employment contracts and sign other legal documents.*
- <sup>3</sup> *The Association is not-for-profit.*

# Agenda item 14: SNSF Presentation

Valentina Gallo

# Agenda item 14: Assessment Criteria

## **Article 15          Assessment criteria, scientific evaluation**

<sup>1</sup> The relevant criteria for the award of project funding grants are the scientific quality of the research projects and the scientific qualifications of the applicant.

<sup>2</sup> Scientific evaluation is conducted in accordance with the criteria set out in Article 24 paragraph 2 of the Funding Regulations:

- a. scientific quality of the proposed research project: scientific relevance, topicality and originality, suitable methods, and feasibility;
- b. scientific qualifications of the researchers: scientific track record and ability to carry out the research project.

<sup>3</sup> For applications in use-inspired basic<sup>12</sup> research, the project's broader impact is considered in the evaluation.

# Agenda item 15: SCNAT funding requests for 2022

- IPPOG membership. 3000 euros
- Dialog with society 10000 CHF
- Zuoz school (already approved – postponed)
  
- Any other event ?
  - ➔ Target audience
  - ➔ When
  - ➔ Person in charge of the organisation + Angela

# Dialog – last year articles



## Particle physicists create artificial atoms for research purposes

In the laboratories of modern physics the elementary components of matter are studied. To do this, scientists sometimes build artificial atoms to help them understand the laws of matter. A...

Image: PSI



## The Economics of Big Science

Presents a novel combination of essays with contributors from big research organizations, funding agencies and experts in economics



## Zurich particle physicists make headlines with XENON collaboration

Axions are elementary particles with extremely low mass. So far they exist only in the brains of theoretical physicists, nobody has observed them. Really? Measurement results at detector XENONIT in...

Image: XENON collaboration



## Geneva school wins "Beamline for Schools" 2020 competition

The delta+ is a type of baryon, the family of sub-atomic particles to which the more well-known proton and neutron belong. A team of physics enthusiasts at the International School...



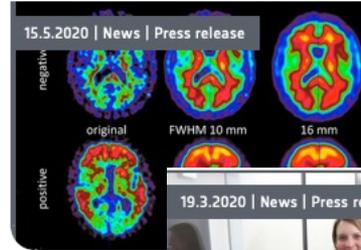
## CERN collaborations present new results on charmed particles at online conference

The ALICE, CMS and LHCb collaborations present new measurements that show how particles containing charm quarks can serve as "messengers" of hadrons and the quark-gluon plasma, carrying information about these...



## Claudia Merlassino wins the CHIPP Prize 2020

Claudia Merlassino was born in Genoa, studied physics in Milan and completed her doctorate at the University of Bern in October 2019, since then she has been doing research at...



## The start-up Positriq uses findings from particle physics for the early diagnosis of Alzheimer's disease

Positron emission tomography (PET) helps medical doctors to detect cancer and many other diseases. A team of researchers led by ETH Professor Günther Dierker is...



## University of Applied Sciences Northwestern Switzerland researches astroparticles of the Sun

Scientists at the University of Applied Sciences and Arts Northwestern Switzerland (FHNW) have spent around ten years building the Spectrometer / Telescope for Imaging X-rays (STIX). Since 10 February, the...

Image: B. Voelz, CHIPP, Switzerland



## California-based neutrino researcher François Drielsma

With its European particle physics laboratory CERN, Geneva attracts many researchers to Switzerland. This was also the case with François Drielsma (28). In a doctoral thesis supervised by Prof. Alain...



## Rainer Wallny on the CERN Future Circular Collider (FCC) project

Particle physicists from all over Europe are currently discussing the future of European particle physics, when the current ring accelerator LHC will be decommissioned around 2035. Next May, the decision...



## Particle physicists formulate future of the field

This week's drafting session marks final discussions for the update of the European strategy for particle physics



## About the movie "Les Particules" by Blaise Harrison.

Elementary particle physics and the large-scale CERN research facility have repeatedly inspired artists to engage with modern scientific research. The latest example is the movie 'Les Particules' by French-Swiss filmmaker...

Image: CHIPP, Switzerland

# Postponed to August 2022

<https://indico.psi.ch/event/8227/>

## Zuoz Summer School 8-14 August 2021



### Vision and Precision

<https://www.psi.ch/particle-zuoz-school>

Registration will open in March 2021  
before June: **CHF 650**; later : **CHF 730**

Adrian Signer, Michael Spira, Anita van Loon-Govaerts, [zuoz2021@psi.ch](mailto:zuoz2021@psi.ch)

- Nicolas Berger (Annecy)  
Statistics
- Brian Petersen (CERN)  
From raw data to physics
- Vincenzo Cirigliano (Los Alamos)  
EFT and low-energy probes of new physics
- Barbara Jäger (Tübingen)  
Perturbative (QCD) calculations
- Angela Papa (Pisa/PSI)  
Low-energy experiments
- Renato Renner (ETH)  
Foundations of quantum mechanics
- Andrea Wolzter (CERN/EPFL)  
The big questions

All inclusive fee  
(meals, lodging, coffee breaks,  
excursion, conference dinner,  
tennis and football)

# Agenda item 16: CHIPP Computing Board updates

FLARE – CSCS Tier 2 LHC Computing Infrastructure (2021 - 2023):  
Approved (198 kHS06 +24%, 6155 TB +16%, 2 FTE as before)

## New Steering board:

we agreed to move from one representative per Institute to one representative per Experiment (FLARE PIs will remain one per Institute)

ATLAS: Steven Schramm

CMS: Clemens Lange

LHCb: Lesya Shchutska

## Operations:

Pledges 2020 fulfilled

## EGI (European Grid Infrastructure):

We're discussing to move from "full membership" to "associate membership"  
(main difference is a council sit)

Discussing Sigve Haug replacement

## ALPS:

new machine being commissioned

<https://www.cscs.ch/computers/alps/>

# Agenda item 17: AGORA (SNSF) funding Outreach project

- Katharina Müller

# Origin – an exhibit in Switzerland?

- Ideas to have a major exhibit in one or more of the leading national museums on
- Science of Big Bang, Early Universe, CERN



# Exhibition in Vienna

- Wie alles begann. Von Galaxien, Quarks und Kollisionen
  - 19. Oktober 2016 – 20. August 2017
- Science of Big Bang, Early Universe, CERN
- Science & Arts video, light and sound installations by Austrian artists
- Artwork inspired by CMS (Michael Hoch)
- Extremely successful: 400'000 visitors



# Similar Exhibition in Switzerland?

- Study changes to have a major exhibit in one or more of the leading national museums (e.g. the Landesmuseum in Zurich, Naturhistorisches Museum Bern, ...)

## *Origin (Der Ursprung von allem, or Wie alles begann)*

discussing the question of origin from different perspectives with the aim to inspire awe, creativity, critical thinking and trigger curiosity

- Initiated by Günther Dissertori, 2018  
Applicants: Günther Dissertori, Hans-Peter Beck, Katharina Müller  
Project partners:
  - Furler Productions GmbH (analysis, concept, production and marketing)
  - Michael Hoch (consulting)
- Application for small scale AGORA grant 29 kCHF submitted February '19:  
*Origin – a situation analysis*  
→ study of possible locations, implementation scenarios, costs, target audiences etc.

# Dialogue with general public

- Pre-studies include active dialogue with the general public  
→ input for the realisation of large-scale exhibition project
  
- 3 proposed outreach events addressing diverse audiences to collect questions and inputs
  - International Masterclasses (questionnaires and white boards for the students) (age 16-19)
  - Tun Zurich (STEM event)  
planned in main station of Zurich for school classes (age 6-13)
  - Scientifica (all ages)
  
- Plus
  - questionnaire for parents (category family, children age 5-12)
  - interviews with target audience (universities, schools, parents)

# Possible museums

- Museum will have the lead and (co)-design the exhibition  
Scientists: scientific advice, contacts and names in grant application
- First contact: Landesmuseum Zürich
  - Meeting to present the idea February 2019
  - Visit to CERN
  - No in-house expertise, difficult to realise
  - Interested but not the main focus of the museum



# Feedback on AGORA proposal

- The exhibition project seems very promising and could undoubtedly meet with great success.
- There is no doubt that the project team is very qualified and have all the needed experience and competences to conceive an attractive and concerning exhibition.
- Project does not contain strong elements of dialogue
- Worries that there is no outcome if the large grant is never submitted/realised
- AGORA is not planned to fund feasibility studies
  
- Exhibition will have some very good chances to be funded by AGORA

# What's next?

- Find group of outreach enthusiasts working towards a full AGORA grant proposal
- Identify / contact possible museums  
Naturhistorisches Museum Bern, Technorama (Winterthur), Verkehrshaus (Luzern)
- Submit a full AGORA grant request



## Agenda item 18: SPS/OPG joint annual meeting in Innsbruck

Andreas Schopper (CERN)

At present it is foreseen to have the meeting in person in **Innsbruck** in the week of **31 August to 3 September 2021**.

# CHIPP Prize 2021

**The 2021 CHIPP Prize winner will be announced  
at the Plenary meeting tomorrow**

**Talk at the SPS/OPG joint Annual meeting in Innsbruck**

# Agenda item 19:

## Status of new professorships

New professorships at CHIPP institutes report from each institute:

- Basel: Stefan Antusch informs: TTAP position at the University of Basel, in the area of Theoretical Particle Physics and Cosmology, with application deadline 30.9.2021. The ad can be found at the usual resources, including INSPIRE (<https://inspirehep.net/jobs/1866785>)
- Bern
- Geneva
- Zurich
- EPFL
- ETHZ
- PSI

# Agenda item 18: A.O.B.

- News from the community
  - Any news or announcement to be communicated ?