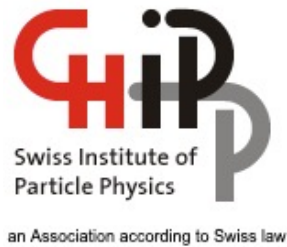


CHIPP Plenary meeting 2021



Agenda

➔ Agenda approved ?



Agenda of the Plenary meeting 2021 Formal part on 21 June 2021

Place of the meeting: Seaside Hotel, Spiez

Time of the meeting: 11 June 2021 at 9h00
Indico link <https://indico.cern.ch/event/1043538/>

1. **Welcome, news from CHIPP Board and Executive Board** Rainer Wallny
2. **Admission of new CHIPP Honorary Members** Rainer Wallny
3. **CHIPP Elections**
 - **Two Swiss Plenary-ECFA representatives**
 - **One Swiss Restricted-ECFA representative**
4. **Reports from CHIPP Committees** Rainer Wallny

Minutes of the last meeting

- Final draft minutes of the CHIPP Plenary 2020 have been made available on www.chipp.ch
 - [Link → document](#)

NEW CHIPP

Executive Board composition

Tobias Golling (Vice-Chair) 1st term until end 2023

Ben Kilminster (Vice-Chair) 1st term until end 2023

Gino Isidori (Vice-Chair), 2nd term until end 2022

Michele Weber (Chair) 3rd term, until end 2022

CHIPP Functions & Tasks elections

Mauro Donegà (ETHZ) as CHIPP Computing Board Chair for a 2nd term (Jan 2022 – Dec. 2024)

Frederic Blanc (EPFL), Plenary ECFA for a 2nd term (Jan. 2022 – Dec. 2024)

Mike Seidel (EPFL/PSI), Restricted and Plenary ECFA for a 2nd term (Jan. 2022 – Dec. 2024)

Philipp Schmidt-Wellenburg (PSI), Plenary ECFA for a 1st term (Jan. 2022 – Dec. 2024)

Xin Wu (UniGe) APPEC General Assembly scientific delegate for a 2nd term (Jan 2022 – Dec. 2023)

Xin Wu (UniGe) Committee on Space Research (CSR) rep. for 4th term (Jan. 2022 – Dec. 2023)

Katharina Müller (UZH) IPPOG Swiss representative for a 3rd term (Sep. 2021 – Sep. 2023)

Martin Kunz (UniGe) as CHIPP observer in CHAPS (Jan. 2022 – Dec. 2024)

Mikhail Chapochnikov (EPFL) as CHIPP Honorary Board Member

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

2003

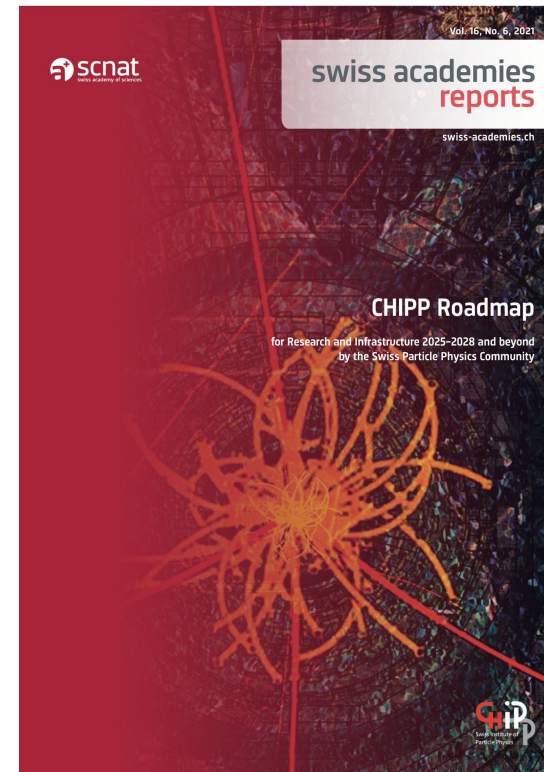


In May 2003, the Swiss Particle Physics Forum commissioned a study of the status and outlook of particle physics research and education in Switzerland. This publication is the Report of the Working Group appointed to make that study. The Forum was replaced by a Swiss Institute for Particle Physics (CHIPP) in October 2003. The CHIPP Board endorsed this report in February 2004.

Authors: CHIPP

Pages: 105

2021



The State Secretariat for Education, Research and Innovation (SERI) prepares every four years the [Swiss Roadmap for Research Infrastructures](#). This provides a basis for decision-making on the investment of federal funds in research facilities of national interest. The Roadmap is integrated into the ERI Dispatch, which the Federal Council then submits to Parliament for approval.

On request by the SERI, SCNAT develops discipline-specific roadmaps for the natural sciences. These point out which research infrastructures will be necessary in the future and prioritise them from a scientific point of view. The SERI will evaluate the roadmaps for the various fields together with other actors and will decide which research infrastructures are to be included in the 2023 Roadmap and then, possibly, in the ERI Dispatch 2025–2028.

https://scnat.ch/de/uuid/i/a4a1b2d1-5483-5229-aa88-699c00c366d2-CHIPP_Roadmap

Competences
of the Plenary
Session

Article 19

¹ *The Plenary Session is the supreme body of the Association.*

² *In addition, the Plenary Session is a forum for scientific information, thereby providing annually an overview of the Swiss research and committee activities in particle, astroparticle and nuclear physics.*

³ *In particular, the Plenary Session*

(...)

e. elects – on recommendation of the Board – the Swiss representatives to some of the international bodies;

f. decides – on recommendation of the Board – about the admission of Honorary Members.

CHIPP bylaws:

<https://chippfiles.scnat.ch/CHIPP/Documents/Statutes/StatutesBylaws.pdf>

Agenda item 2: 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 3: 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:

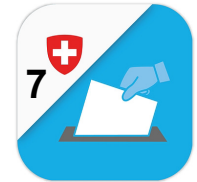
Mike Seidel (PSI), Restricted ECFA and Plenary ECFA member until Dec 2021, 1st term

Frederic Blanc (EPFL), Plenary ECFA member until Dec 2021, 1st term

Domenico della Volpe (Uni. GE), Plenary ECFA member until Dec 2022, 2nd term

Andreas Knecht (PSI), Plenary ECFA member until Dec 2021, 2nd term

Agenda item 3: 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 2nd three-year term (Jan. 2022 – Dec. 2024)
- the re-election of **Mike Seidel** (EPFL/PSI), Restricted and Plenary ECFA for a 2nd three-year term (Jan. 2022 – Dec. 2024)
- the election of **Philipp Schmidt-Wellenburg** (PSI) , Plenary ECFA for a 1st three-year term (Jan. 2022 – Dec. 2024)

Agenda item 14: CHIPP Prize 2021

The 2021 CHIPP Prize winner is:

Gabriel Cuomo (EPFL)

Talk at the SPS/OPG joint Annual meeting in Innsbruck

The CHIPP Prize jury honours Gabriel Cuomo for his outstanding theoretical studies of quantum field theories in the strongly coupled regime, which elucidated new properties relevant to a variety physical systems: from condensed matter to cosmology.

Short Update from the CERN Council

□ Recent and next meetings

- 22.3. – 26.3.2021 → see detailed report sent by GD to CHIPP
- **Next meeting : next week, 14.6 – 18.6.**

□ Main topics currently discussed by the Council

- **Medium Term Plan** (Budget Plan 2022-2026), implementing the recommendations of the European Strategy Update
 - includes a special CERN contribution to the 2nd DUNE cryostat
- **FCC feasibility study**: discussion and decision on its governance/organizational structure
- **Governance working group**: in-depth analysis of the operations and procedures of the Council and its subordinate bodies, also in comparison to other similar international organizations

□ Election process of the next President of Council

- Call for nominations has resulted in the following list of candidates:
- **Peter Levai (Hungary) - Eliezer Rabinovici (Israel) - Jochen Schieck (Austria)**
- Statements sent prior to the June meeting, interviews next week, election during the September Council week

NuPECC Report

Report of the ECFA-APPEC-NuPECC activities by Prof. Dr. Bernd Krusche

European Committees for Astroparticle (APPEC), Particle (ECFA) and Nuclear Physics (NuPECC), and following a first joint [seminar held in Orsay](#) in 2019, [Expressions of Interest](#) for common activities have meanwhile been endorsed in the following areas:

- Dark Matter (iDMEu)
- Machine-learning Optimized Design of Experiments (MODE)
- Gravitational Waves for fundamental physics
- Nuclear Physics at the LHC
- Storage Rings for the Search of Charged-Particle Electric Dipole Moments

we would like to inform the community-at-large about these common activities and encourage further engagement and participation

➡ **Joint ECFA-NuPECC-APPEC Seminar (JENAS)** that will be held in **Madrid from 6 – 8 May 2022.**



Summary on ECFA activities, M.Seidel (PSI/EPFL)

organisation:

ECFA chair since 1/2021: Karl Jakobs (Uni Freiburg/DE),
scientific secretary: Patricia Conde Muíño (Uni Lisboa) endorsed on May 28

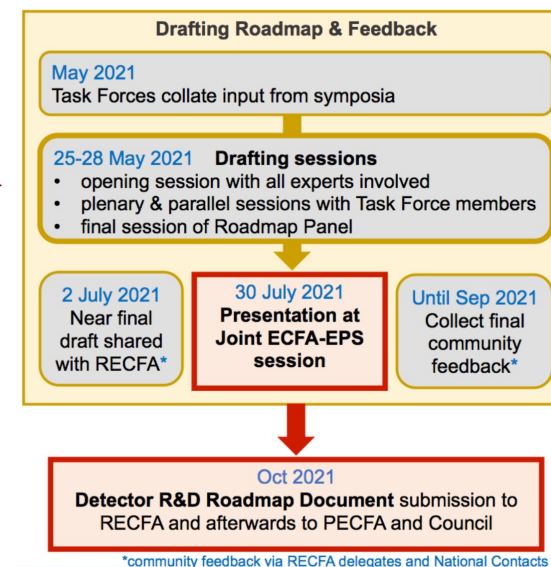
major ongoing activities:

- **Detector R&D Roadmap Process** (CH contact B.Kilminster Uni ZH) →
- **Accelerator Roadmap Process** (LDG, D.Newbold, STFC)
subgroups: High-Field Magnets (LTS, HTS), High-gradient acceleration (plasma / laser), high-gradient RF structures, muon beams, energy recovery linacs
- **Diversity Charter** (P.C.Muíño, Lisboa) → survey process launched
- **Early Career Researchers Panel** established: <https://ecfa.web.cern.ch/ecfa-early-career-researchers-panel>.
(ECR CH: A.Fehr, S.Schramm, M.Zeyen)
- **country visits**: will be resumed after pandemic with France/Sept, Serbia/Oct, Denmark/Nov

upcoming events:

- Plenary ECFA meeting, **July 23, Zoom**
- ECFA/EPS Session, **July 30, Zoom**
- RECFA + PECFA meeting at **CERN, Nov 18 - 19**
- 2nd JENAS will take place in **Madrid in 2022, 3 – 6 May**

→ more details in separate pdf slide selection



- Swiss ACCU representative
 - ▶ SGS replaced Danek Kotlinski (PSI)
 - many thanks Danek for all the work done and for providing a very smooth transition !
 - ▶ attended two ACCU meetings (Zoom): #130 (December 20) and #131 (March 21)
- COVID-19
 - ▶ Access to CERN sites by Users only after request approval of Spokepersons or Technical coordinators
 - ▶ Teleworking is still recommended whenever possible
 - ▶ Proximity detecting device (“Proximeter”)
 - data to help Medical Service for contact tracing. Mandatory from 1st March.
 - replacement campaign for v1 due to required firmware update
- Catering
 - ▶ R1 (Meyrin) and R3 (Prévessin) remain open, although with reduced opening hours
 - decrease in seating capacity due to 2m minimum physical distance requirement
 - mandatory use of mask, except when eating
- Internal Taxation Certificate change
 - ▶ clarification of legal framework: “occasional subsistence allowance” -> “Cost-of-Living Allowance (COLA)”

- Two APPEC Generally Assemblies since last report: December 9, 2020 and April 1, 2021
- New Chair, Vice-chair and General Secretary
 - [Andreas Haungs \(KIT, Germany\)](#), [Antoine Kouchner \(APC France\)](#), [Katharina Henjes-Kunst \(DESY\)](#)
- Direct Dark Matter Detection committee report is now published
 - <https://arxiv.org/abs/2104.07634>: 7 recommendations
 - Including forming a (“distributed but integrated structured”) *European Laboratory of Underground Science*
- Neutrinoless double beta decay strategy
 - [European-North American Summit \(organized by T. Montaruli, M. Pallavicini\) at Gran Sasso, Sept. 29 - Oct. 1, 2021](#)
 - [Switzerland will be represented by CHIPP \(mandated by SERI\)](#)
- Joint ECFA-NuPECC-APPEC activities (JENAA, <http://nupecc.org/jenaa/>)
 - [JENAS \(Joint ECFA-NuPECC-APPEC Seminar\): Next edition \(JENAS2022\): May 3-6 2022, Madrid](#)
 - [JENAA synergy topics: 5 Eols received, and supported: <http://www.nupecc.org/jenaa/?display=eois>](#)
 - [iDMEu, "Initiative for Dark Matter in Europe and beyond", kick-off meeting on May 10-12, 2021 \(<https://indico.cern.ch/event/1016060>\)](#)
 - [JENA Diversity Charter: <http://nupecc.org/jenaa/?display=diversity>](#)
- Input to ASTRONET roadmap process: <https://www.astronet-eu.org/science-vision-infrastructure-roadmap-2020-2030>
- APPEC Town Meeting: June 9-10, 2022, Berlin

CHIPP computing overview

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/>

CHIPP – short outreach report

2020/21 very difficult for outreach events:

- Masterclasses – postponed (except EPFL)
- High-School Students Internship Programme, HSSIP – rescheduled Oct 17-30
- Most of the activities for high-school students: closed

But new paths and tools to attract different people and wider audiences – also for the future:

- Virtual visits, online events, virtual talks, videos, ...

Some great achievements in the past months

- CHIPP roadmap: 6/96 pages on outreach and education
- New Science Museum UZH: exhibit space at Campus Irchel with temporary exhibitions
- LHCb result on Lepton Universality and g-2 result from Fermilab: lots of attention in the news
- U Ge: ATLAS dataset containing low-level detector objects for teaching about hadronic physics and jet reconstruction

Ongoing

- Regular CHIPP news articles by Benedict Vogel
- Women and girls in science, February 11
- Talks, (virtual) visits, some (virtual) courses, mentoring

Outlook

- Scientifica '21: Zurich Science Days September 8./9

for extended report, see CHIPP agenda ideas/suggestions?

Wanted: supervisors and projects for HSSIP, October 17-30!


→ Katharina (kmueller@physik.uzh.ch)

Fostering CH collaboration towards a FCC(ee)

Florencia Canelli & Anna Sfyrla




1


Registration open!

- 
7 September 2021
<https://indico.cern.ch/event/1040241/>
- 
 Physics, detectors and accelerators: status of existing efforts within the FCC study and explorations of Swiss interests & expertise applicable to a future high-energy circular collider
- 
 Introduction to international FCC efforts and identification of common grounds of activities within Switzerland

Host:  **UNIVERSITÉ DE GENÈVE**

2

- 
26-28 January 2022
<https://indico.cern.ch/event/1041452/>
- 
 Physics, detectors and accelerators: expressions of interest for participation to concrete projects
- 
 Identification of interested parties for collaborative activities; potentially also participating to common efforts for fund raising (e.g. FLARE)

Host:  **University of Zurich^{UZH}**

Workshops sponsored by the UniGe and the UZH; supported by CHIPP;
Attendance open to all! Please join!

SPS/OPG joint annual meeting in Innsbruck

Hans Peter Beck (UniBe/Fr) 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**.

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

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 Wulzer (CERN/EPFL)

The big questions

All inclusive fee

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

Thank you and safe travels!

- Angela
- Session Convenors
- Young Scientists:
 - ❑ Robert-Mihai Amarinei (University of Geneva)
 - ❑ Alessandro Calandri (ETHZ)
 - ❑ Félix Carlier (EPFL)
 - ❑ Armin Ilg (University of Bern)
 - ❑ Francesco Lucarelli (University of Geneva)
 - ❑ Federico Leo Redi (EPFL)
 - ❑ Jesse Zhang (ETHZ)
- Still Young Scientist:
 - ❑ Mauro Donega
- Hotel Staff

