Swiss Institute of Particle Physics
an Association according to Swiss law

CHIPP Board meeting

Welcome to the:
– Board members
– Honorary Board members
– Observers at the Board

New Board member:
– Prof. Anna Sfyrla, Uni. GE

Swiss Institute of Particle Physics

Agenda item 1: Agenda

- The final Agenda has been distributed on 13 October.
- All documents have been made available on a confidential CHIPP internet page.

- Proposal for a change (new title) to agenda item 11:
  - "Recent outreach activities and future of the web site www.particlephysics.ch" (Hans Peter Beck)

➡ **Agenda approved ?**

Agenda item 2: Proxy Votes

- The following Proxies have been designated:
  - Christoph Grab (for Adrian Biland)
  - Malte Hildebrandt (for Martin Pohl)
  - Ben Kilminster (for Florencia Canelli)
  - Teresa Montaruli (for Tobias Golling)
  - Stefan Ritt (for Wojtek Hajdas)
  - Olivier Schneider (for Aurelio Bay)
  - Nicola Serra (for Gino Isidori)
  - Adrian Signer (for Klaus Kirch)
  - Ueli Straumann (for Laura Baudis)
  - Rainer Wallny (for Roland Horisberger)
  - Xin Wu (for Giuseppe Iacobucci)

Agenda item 2: Apologies & Quorum

- The following apologies have been received:
  - Bernd Krusche
  - Tatsuya Nakada

- Board members with voting rights: 65
- Quorum (1/3 of Board): 22 votes, reached ?

Agenda item 3: Minutes of the last meeting

- Minutes of the CHIPP Board 2015-02 (29/30 June 2015) have been made available after the meeting on www.chipp.ch and are linked from the agenda.

➡ **The Board is invited**

– **to approve** the minutes of the last meeting

Base: Article 27, litt. a; simple majority

Agenda item 4: Election of an Executive Board member for 2016–2017 (1)

- At the last Board meeting (29/30 June 2015) Tatsuya Nakada was elected as CHIPP EB member and as CHIPP Chair for 2016–2017, succeeding to Olivier Schneider, whereas Rainer Wallny expressed he was no more available for re-election.
- In 2016, the EB will have the following members:
  - Tatsuya Nakada (Chair) (until Dec 2017, 3rd term)
  - Teresa Montaruli (until Dec 2016, 2nd term)
  - Adrian Signer (until Dec 2016, 1st term)
- The call for nominations resulted in 21 nominations from 5 different institutes.
- Three Board members have been nominated, but only one of them – Günther Dissertori – is standing for election.

Agenda item 4: Election of an Executive Board member for 2016–2017 (2)

- Dissertori (ETH Zurich) has the support of the current EB and of the incoming CHIPP Chair.

➡ **The Board is invited**

– **to elect Günther Dissertori** for a 1st EB term (Jan. 2016 – Dec. 2017)

Base: Article 27, litt. e; simple majority

Agenda item 5: CHIPP Activities 2016 (1)

- As in previous years, the last Board meeting has to deal with the activities and the budget of the coming year.
- The detailed Board document distributed on 13 October is structured in four parts:
  - EB proposal for the EPPCN representative
  - Planned activities 2016
  - Corresponding budget 2016
  - Foreseen income from the membership fees 2016
- The EPPCN issue is included here, because it directly affects the activities and the budget of 2016.

Agenda item 5: CHIPP Activities 2016 (2)

EPPCN representative

- Finding a suitable Swiss representative in the European Particle Physics Communication Network (EPPCN) has been a long-standing issue.
- The EB now proposes a solution based on recent evolution:
  - An active journalist was not found to be the preferred profile
  - Marc Türler (CHIPP Administrator) has experience in communication & outreach and volunteered for the mandate
  - SERI agreed to contribute significantly to the funding of the EPPCN member with up to 15 kCHF/year starting in 2016
  - An increase from 50% to 60% of the contract of Türler would fill the needs and would be fine both with SERI and the UZH

Agenda item 5: CHIPP Activities 2016 (3)

Planned activities

- Science: RECFA country visit, Zuoz Summer School 2016, CHIPP PhD/Postdoc days, CHIPP Prize, and two workshops: SWHEPPS 2016 & PSI 2016
- Communication & Outreach: EPPCN activities, Outreach Group, continuation of the “Dialogue” with the society
- Funding: request to SCNAT, joint FLARE requests for LHC M&O and Computing, CHIPP Long-Term Financial Tables
- Association: EB, Board and Plenary meetings, active SCNAT membership, participation in the Round Table and LA FLARE, designation of representatives in national / international organisations, website maintenance

Agenda item 5: CHIPP Activities 2016 (4)

Budget overview

- Expenses → 141 kCHF:
  - Work of Administrator, operations and travel cost → 78k
  - Contribution to SCNAT (3.5k), Zuoz Summer School (10k), SWHEPPS (14k), other workshops (3k), Communication & Outreach (26k, incl. EPPCN), Prize (3k), meetings (2k) → 63k
- Income → 128 kCHF:
  - Contribution from CHIPP members → 84k
  - Support from SCNAT → 24k
  - Support for EPPCN from SERI & CERN → 20k
- Balance → –13 kCHF (but with an estimated asset of ~58k)

Agenda item 5: CHIPP Activities 2016 (5)

Contributions from CHIPP Members (unchanged):

- Individual membership fee of 110 CHF/capita
- Institutional fee of 5.6 kCHF/institute, but 2 kCHF for Basel

➡ **The Board is invited**

- **to approve** the EB proposal for the EPPCN representative
- **to approve** the CHIPP activities for 2016
- **to approve** the CHIPP budget as resulting from the activities
- **to approve** the membership fee as well as the institutional fee as set out above

Base: Article 27, litt. a, and litt. u; simple majority

Agenda item 6: Revision of CHIPP Prize procedures

- A further update of the CHIPP Prize procedures was initiated by Adrian Signer, the new Chair of the Selection Committee.
- The EB discussed the issue and proposes a revision of the procedures, as distributed with the Board documents.
- They relax the need to have two additional reference letters from other institutions and clarify several points:
  - the notion of the non-completion of the thesis
  - the selection of the members of the Selection Committee (by EB)
  - the notion that only one candidate can get the award

➡ **The Board is invited**

– **to approve** the revised procedures for the CHIPP Prize

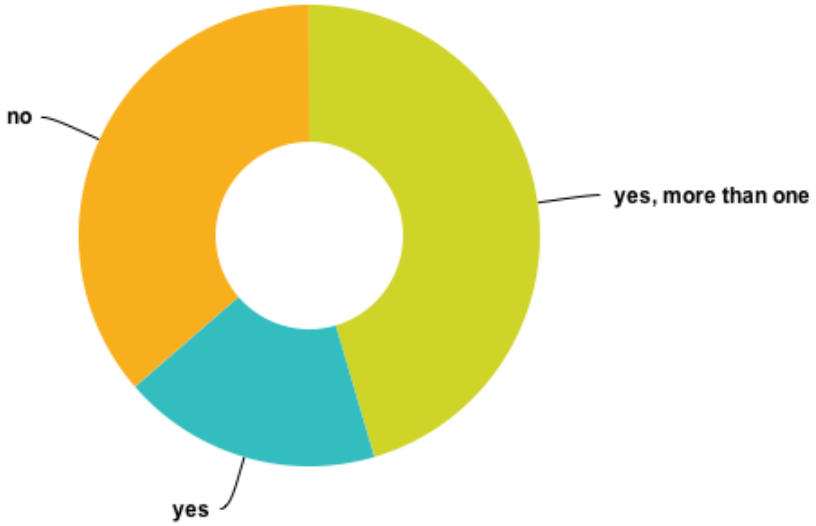
Base: Article 27, litt. q; simple majority

Agenda item 7: CHIPP PhD Winter School continuation and organisation (1)

- The CHIPP PhD Winter School has been organised in 2012, 2013 and 2015 by Vincenzo Chiochia in Grindelwald.
- Previously, it was held in 2008, 2010 (Monte Verità, Ascona), and in 2011 (Leukerbad).
- Feedback from the last school (18 students + 4 lecturers) has been presented at the Board 2015-01.
- The need to find new organiser(s) has been brought up at the Board 2015-02. Nobody volunteered since then.
- The EB has therefore prepared a questionnaire to be filled by Board members prior to this meeting.
- The result of this survey is presented below for discussion.

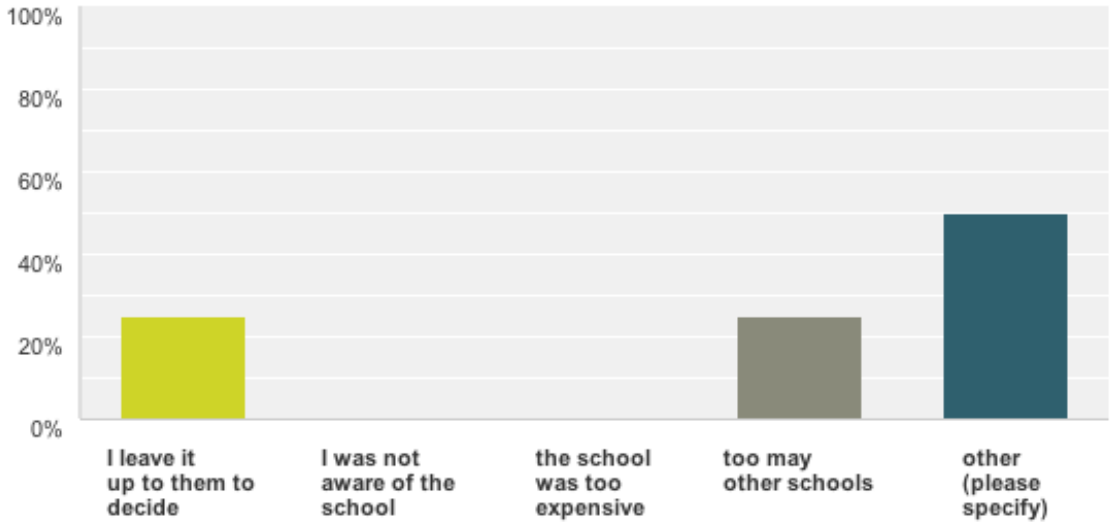
Did some of your PhD students attend the CHIPP Winter School in 2013 or 2015?

Answered: 11 Skipped: 0



If no, why not?

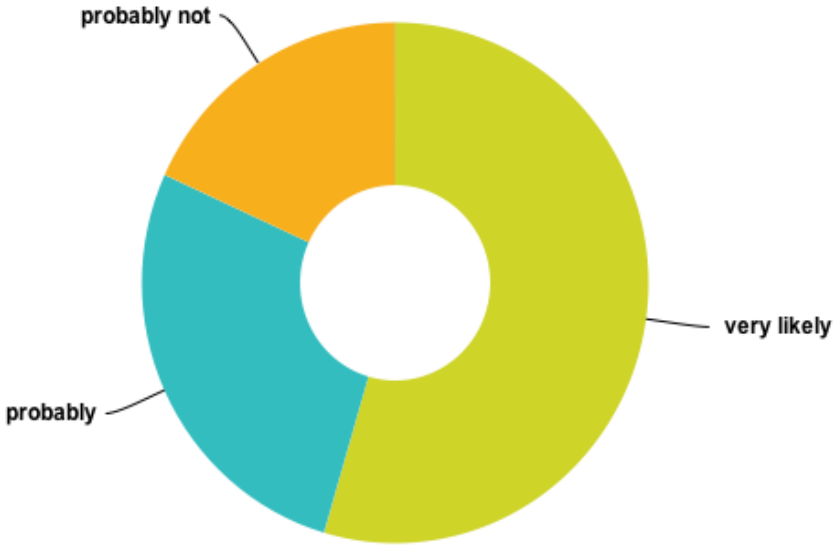
Answered: 4 Skipped: 7



- I did not find it so interesting for our research
- They've attended the CERN summer school and the PSI school

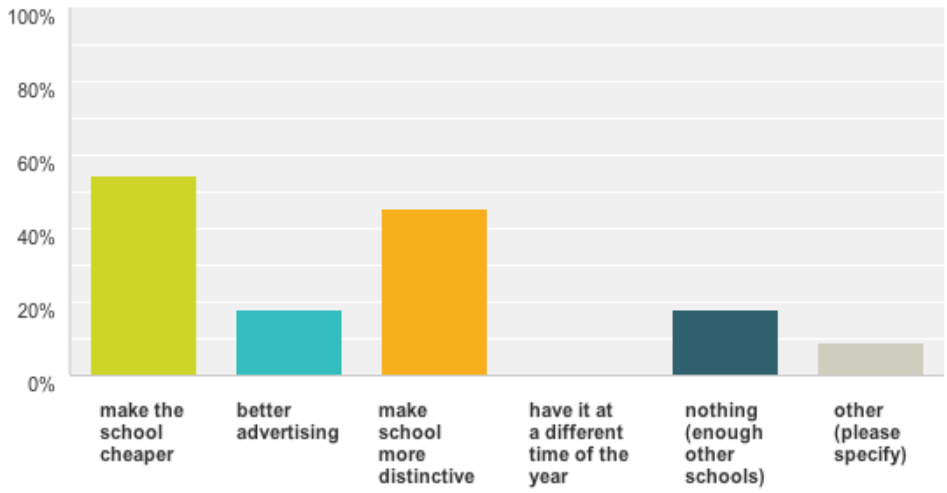
If there was a CHIPP Winter School in 2017, would some of your PhD students participate?

Answered: 11 Skipped: 0



What would increase the probability of your students attending?

Answered: 11 Skipped: 0



- A broadening of the horizon and a more ambitious choice of lecturers. It is however true that there are enough other good schools. The CHIPP school could nonetheless, in principle, foster the establishment of scientific relations among us and our young colleagues, the students.

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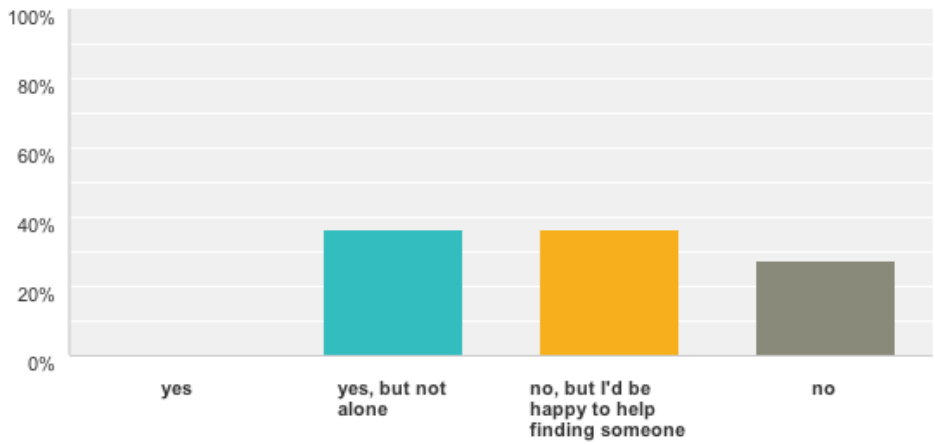
Would you be willing to organize the next CHIPP Winter School?

Answered: 11 Skipped: 0



Four people were (anonymously) ready to organize the next CHIPP Winter School. This could form a good team.
They should please manifest themselves!

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Agenda item 8: White Paper on Neutrino Physics (1)

Introduction

- In March 2014, at Board 2014-01, the discussion of the Swiss long-term strategy for neutrino physics showed the need to have a White Paper, as for the Astroparticle pillar.
- A year ago, at Board 2014-03, an Executive Summary of a White Paper on neutrino physics has been presented.
- At Board 2015-02, it was agreed that the White Paper shall be finalised.
- A new document has been prepared by six Board members during this summer, and has been distributed to the Board.

Agenda item 8: White Paper on Neutrino Physics (2)

Today's discussion

- Collect comments and reactions from the Board
- Define the next step

Possible next steps (to be decided by Board)

➢ go for a formal endorsement, i.e. turn this into a public CHIPP document that is part of the CHIPP strategy (uploaded on the CHIPP web site next to the roadmap and ApP white paper)
  - decide whether document needs some iteration (and if so which questions need to be addressed)

➢ stop here (for the time being), i.e. document stays only as attachment to the agenda and minutes of this meeting

Agenda item 8: White Paper on Neutrino Physics (3)

Comments from the EB:

- EB recognizes the effort made by the neutrino community to converge on a document to be discussed in the Board
- The planned Swiss contributions in projects "ready to be funded" are not spelled out
  - e.g. what is the concrete Swiss contribution to SBN with 3 MCHF ?
- Only new projects are prioritized in items A–E
  - can items 1–5, which contains new and old projects, be considered as a global priority list ?
- The meaning of items 6–10 is unclear
  - is this for after 2020 ? if not, which priority do these new projects have with respect to items 1–5, and (in a constrained budget) how does this affect the proposed funding of items 1–5 until 2020 ?

Agenda item 9: Recommendation at next LA FLARE meeting (1)

Introduction

- CHIPP has representatives in the steering committee LA FLARE
  - LA FLARE "monitors the SNSF evaluation procedure" and "indicates the relative long-term funding priorities of the categories of experiments of the individual scientific communities"
- The CHIPP representatives (currently Wallny for PP, Pohl for ApP) can make recommendations; since last year, these recommendations are discussed in the CHIPP Board
- The next annual LA FLARE meeting will be on Nov 9, 2015

Note

- CHIPP/LA FLARE do not make funding decisions (FLARE panel does)
- we discuss here only recommendations for year 2016, which is the last year of FLARE 2013–2016
- FLARE 2017–2020 is yet "unknown" + being overhauled by SNSF

Proposal FLARE funding priorities 2015

(only for PP & ApP)

Priority 1: (obligatory contributions, common funding proposals of LHC experiments)

- Maintenance & Operation of the LHC detectors
- LHC Computing

Shown to LA FLARE in 2014

Priority 2:

- Consolidation and further Upgrades of the LHC detectors (Phase 1 and Phase 2) and consolidation and R&D for the LHC accelerator including luminosity upgrade
- Large ApP projects (CTA, Darwin/XENON)
- Internationally approved neutrino oscillation experiments and R&D aimed towards neutrino detectors in the context of the CERN neutrino platform

Priority 3:

- Further CERN approved and recognized experiments
- R&D for the next generation of accelerators

Agenda item 9: Recommendation at next LA FLARE meeting (2)

CHIPP board 2015-02 (Bossey) …

… affirmed the role of CHIPP on setting priorities, effectively by

- keeping track of needs and wishes via FLARE long-term tables
- formulating long-term priorities via roadmaps/whitepapers
- providing SNSF direct input via annual LA FLARE meeting on the **general priorities** ("bottom up" process preferred by SNSF)

… asked for and agreed on a "pillar-by-pillar prioritization exercise"

- Funding scenarios and sharing amongst pillars were given to **guide the priority discussion**, not as an actual funding assignments
- Exercise more or less converged in the ApP and neutrino pillars, but not in the High+low energy pillar where the situation is strongly influenced by the outcome of funding initiatives outside FLARE

Agenda item 9: Recommendation at next LA FLARE meeting (3)

Formulating 2016 priorities

- The EB interpreted the outcome of the "prioritization exercise" as well as the current neutrino white paper to identify 2016 priorities
  - data contains ambiguities (full consensus not achieved)
  - ambiguities more severe for 2017–2020, further iterations will be needed (but not scope of this discussion)
- Aim of today's discussion is to verify with the CHIPP Board the EB's interpretation of the 2016 priorities to be recommended in LA FLARE

Note:

- CHIPP does not tell individual PIs what to submit to FLARE, hence any "moderation" works via "self-moderation"

Proposal FLARE funding priorities 2016

(only for PP & ApP)

Priority 1: (obligatory contributions, common proposals of LHC experiments)

- Maintenance & Operations of the LHC detectors
- Computing for LHC experiments (Tier2 in Lugano)

Priority 2:

- **Pillar 1**: Consolidation and upgrades of ATLAS, CMS, LHCb (Phase 1&2)
  + $\lesssim$ 100 kCHF for CERN accelerator R&D
- **Pillar 2**: Internationally approved neutrino projects WA105 and SBN
  + $\lesssim$ 100 kCHF T2K/NA61 Maintenance & Operations
- **Pillar 3**: Internationally approved ApP projects CTA and XENON/Darwin

Priority 3:

- Other CERN approved and recognized experiments

NB: ATLAS and SBN have already received funds for 2016

Principles of Prioritization

Shown to Board last year

- Prioritize projects for which CH funding agencies (SERI, SNSF) have international obligations (i.e. CERN RRB)
- Prioritize projects with stringent review on budget (resource board) and science program (physics review committee), also as part of international strategy (European Strategy, ApPEC, etc.)
- Prioritize efforts with "significant Swiss involvement" (i.e. at least two groups involved)
- Prioritize long-term efforts which are stable in time (unless severe reasons to change them occur)
- Keep FORCE priorities largely intact – acknowledge special role of CERN in CH
- Prioritizing everything as category 2 is not prioritizing at all. One or max two flagships per pillar, as a rule of thumb.

Agenda item 9: Recommendation at next LA FLARE meeting (4)

Comments on the "prioritization principles"

- "… efforts with significant Swiss involvement …"
  - The two main prioritized neutrino projects (WA105 and SBN) each involve only a single Swiss group
  - OK if understood as a transient feature: the neutrino white paper argues that all Swiss groups involved in accelerator-based neutrino projects have a common long-term goal: a future international long-baseline neutrino experiment … which still needs to be clarified
- "… everything as priority 2 is not prioritizing …"
  - That there is no possibility this year to submit new LoIs
  - All CHIPP projects in priority 2 have already FLARE grants
  - Projects with lower priority have not submitted LoIs/requests, by virtue of self-moderation resulting from discussion within CHIPP
- Overall OK, propose to stick to ~same principles in the future

Agenda item 10: Evolution of FLARE

Presentation for information

- Tristan Maillard (SNSF)

Agenda item 11: Recent outreach activities & future of “particlephysics.ch”

Presentation for information

- Hans Peter Beck

Agenda item 12: RECFA News and country visit 2016

Presentation for information

- Lenny Rivkin

Agenda item 13:
Zuoz Summer School 2016

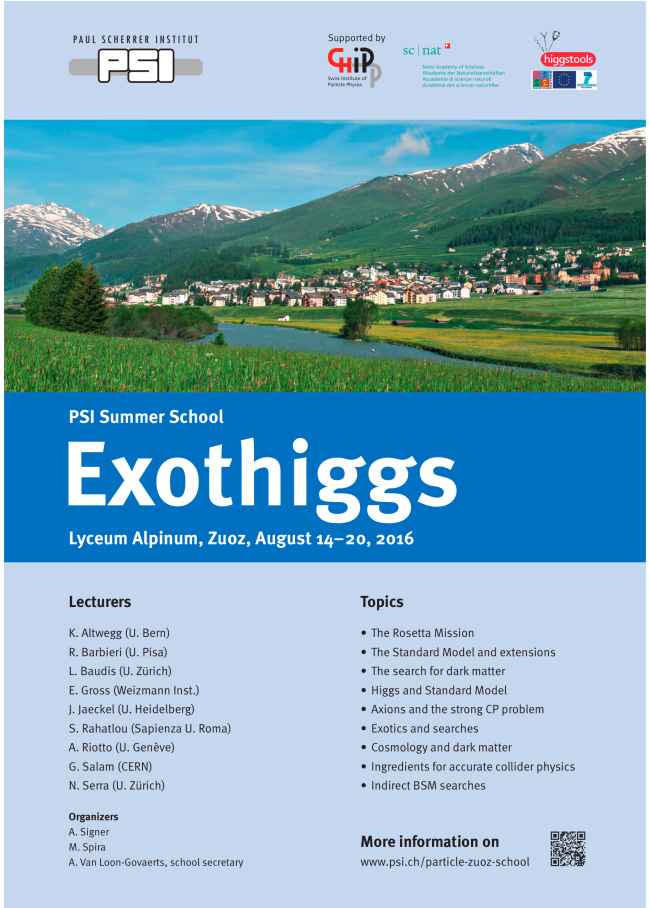
Presentation for information

- Adrian Signer

Exothiggs

- 14–20 August 2016
- Lyceum Alpinum, Zuoz
- For experimentalists and theorists, PhD students and young postdocs
- Registration now open, fee before May 1st 2016: CHF 800/830
- 9 Lecturers (CH + EU)
- Enlarged Prog. Committee:
  - C. Anastasiou (ETHZ)
  - A. Bay (EPFL)
  - G. Dissertori (ETHZ)
  - T. Gehrmann (UZH)
  - N. Glover (IPPP, Durham)
  - R. Horisberger (PSI)
  - G. Iacobucci (Genève)
  - K. Kirch (PSI)
  - U. Langenegger (PSI)
  - U. Straumann (UZH)
  - M. Weber (Bern)

http://www.psi.ch/particle-zuoz-school



Agenda item 14: SWHEPPS 2016: Strategy Workshop on High-Energy Particle Physics in Switzerland

- After the successful strategy workshop on astro-particle and neutrino physics (SWAPS 2014), the EB proposed to have a similar workshop on "High-Energy Particle Physics" (see reports of Board 2015-01 and -02)
- The **scientific organising committee** has been formed:
  - Iacobucci (ATLAS), Wallny (CMS), Nakada (LHCb) and Colangelo (Theory)
- A small group of **local organisers** has been set up:
  - Guenther Dissertori, Florencia Canelli, Ben Kilminster
- A **location and dates** have been fixed:
  - Seminarhotel am Aegerisee Wed. 8 June to Fri. 10 June 2016
- A **first organizer meeting** is being scheduled in November
- During the preparation it was pointed out that **HEP physics (@ LHC) ⊂ pillar1**
  - Including a dedicated low energy physics session will enable to discuss the whole of pillar1 physics in this workshop
    ➔ Workshop could **bring ideal kick-off** to prepare a **pillar1 whitepaper**
  - Extending scope/program will be a challenge but seems worthwhile
  - Will need to **extend the scientific organizing committee**

Agenda item 15: Status of new professorships

New professorships at CHIPP institutes

- report from each institute:
  - Basel
  - Bern
  - Fribourg
  - Geneva
  - Zurich
  - EPFL
  - ETHZ
  - PSI

Agenda item 16: Next CHIPP Board & Plenary meetings

Please book the dates in your diary!

Board 2016–01:

➡ **Possibly Tue Feb 23 or Fri Feb 26, 2016, a Doodle will follow**

Board 2016–02:

➡ **Short meeting at ETHZ on April 1, 2016 (in parallel to closed RECFA meeting), to be confirmed**

Board 2016–03 + Plenary 2016
+ PhD-postdoc days (jointly with SPS):

➡ **23–25 August 2016, in Lugano, TI**

➡ **CHIPP Board meeting foreseen on Monday, 22 August 2016**

Agenda item 17: A.O.B.

- ...