

Notes of the Board meeting 2017-03 on 3 November 2017

Time of the meeting: Friday, 3 November 2017 from 13:15 to 16:00

Place of the meeting: room B5, level -2
University of Bern, Exakte Wissenschaften, Sidlerstr. 5, 3012 Bern

1. Welcome and agenda

The Chair welcomes the Board members, Honorary Board members and the Observer at the Board.
The proposed agenda is approved.

ADMINISTRATIVE ITEMS

2. Apologies and Proxy votes

Board members with voting rights (as of 1 November 2017): 63

Presents: Bay, Becher, Blondel, Canelli, Colangelo, Dissertori, Grab, Hajdas, Hildebrandt, Iacobucci, Kilminster, Kotlinski, Mermod, Piegsa, Ritt, Rivkin, Schneider, Serra, Sfyria, Signer, Spira, Wallny, Weber, Wenger

Other participants: Benelli (Admin.), Raymond (Obs. SERI), Schopper (Obs. SPS), Türler (Obs. SNF)

The Chair details the apologies received and the proxy votes announced before the meeting¹.

Quorum: 22 votes (=1/3 of the Board members; Art. 24.1 Statutes); Votes present: 24 + 7 proxies = 31
→ the quorum is reached.

3. Minutes of the last meeting (2017-02 [August 2017]) ([→ document](#))

The Chair asks if the Board has comments regarding the last minutes, since there are none, he asks the Board to approve the last minutes.

The Board unanimously approves the minutes (with thanks to the minute writer).
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DECISION ITEMS

4. CHIPP activities 2018: planning and budget

The Chair introduces the planned activities and budget for the year 2018. The Chair goes through the list of planned activities in the following themes: science, communication and outreach, funding and association. The presented budget has a planned expense of 152.8 KCHF covered by the income of 80 KCHF of membership fees, 20 KCHF of support for the EPPCN from SERI and CERN, and hopefully around 40 KCHF of support from the SCNAT; at the time of this meeting the SCNAT support is still unknown. The main change compared to last year are the two Strategic Workshops (SWICH) scheduled for April and September that should be covered in part by a SCNAT grant.

A deficit of around 10 KCHF is foreseen. This can be supported by the estimated assets at the start of the

¹ Malte Hildebrandt (for Klaus Kirch), Giuseppe Iacobucci (for Tobias Golling), Michele Weber (for Igor Kreslo), Florencia Canelli (for Gino Isidori), Guenther Dissertori (for Christoph Grab), Gilberto Colangelo (for Bernd Krusche), Alain Blondel (for Teresa Montaruli). Apologies: HansPeter Beck, Bernd Krusche, Stefan Antusch, Thomas Werder, Laura Baudis, Teresa Montaruli

year of ~43 KCHF.

The Board unanimously:

Approves the CHIPP activities for 2018,

Approves the CHIPP budget 2018 as resulting from the activities, and

Approves the 2018 membership fees for individual members and for institutions.

Report of EB activities:

The Chair starts by complimenting Florencia Canelli for her election as Secretary of the IUPAP C11 Commission, starting from the 1st of January 2018 for 4 years; the Board applauds her.

• Round Table discussion at SNF with SERI/CERN

T. Nakada reports about the Round Table discussions at the SNF meeting with SERI/CERN the 27th October 2017. The Director General of CERN usually visits the Swiss governmental authorities during the first year of his/her appointment; Fabiola Giannotti postponed this visit and SERI has kindly organised a Round Table meeting for the occasion, where people representing the communities involved in activities related to CERN have been invited, together with several observers, to give presentations. The CHIPP Chair collected the opinions and suggestions from the Board members and presented the CHIPP scientific programme and activities at CERN as well as its vision in the future. For the Swiss particle physics community it is fundamental that CERN remains at the forefront of high energy frontier physics. Some of the Board members thought that CERN should have a role also in astrophysics, especially to have access to CERN expertise in detector technology development and to its unique infrastructure that could support project management, science policy, outreach and political and administrative matters at the international level. Other Board members' view is that CERN should primarily concentrate on accelerator physics. These two views about CERN could be discussed further next year during the Strategic Workshops. We could re-discuss if the three pillars are still a good way to categorize the CHIPP fields of expertise, maybe the pillar borders could be broadened and we could allow the pillars to overlap; and then maybe CERN could cover a different role.

The Round Table discussion was 1h30 long, with presentations from CERN, SERI, the ETH Board, SNF, the Swiss universities, the Swiss delegates to CERN and from CHIPP. X. Raymond presented a general outlook on SERI with all its activities. There was then an animated discussion about Outreach and CERN. X. Raymond added that F. Giannotti spent the afternoon with the representatives of the government and of the foreign affairs office. Olivier Schneider accompanied the CERN DG during this visit. He adds that together with the DG there were the Director for Accelerators and Technology: Frédérick Bordry, the Head of International Research Organizations Unit: Martin Steinacher and the Leader of the Host State Relations Section: Eder Friedemann.

G. Colangelo asks if there were any special declarations from the representative of the Council of the Swiss University Christian Leumann; O. Schneider reports that Christian Leumann welcomes very much the initiatives of each University in their effort to plan a project involving CERN, his policy is to not impose a project from the top but encourage initiatives from the bottom especially in education, courses and in projects that motivate the young to approach physics. A view more "top to bottom" was presented by Fritz Schiesser, the ETH Board president, he has a strong vision regarding the collaboration of ETH with CERN.

The Chair thanks everybody for the help in preparing the slides to present at the Round Table, and X. Raymond adds they were indeed very appreciated.

The Chair thanks Xavier for organising this meeting and for having involved many actors in it.

•Administrator's employment.

Up to now, the University of Zurich (thanks to Uli Straumann) is employing the CHIPP administrator. Given the fact that he is retiring soon, a more stable solution for the Administrator employment had to be found. We have asked the SCNAT to employ the CHIPP Administrator. CHIPP will reimburse the cost, as we have done up to now. The HR department at the SCNAT is now ready to start the procedure.

•RRB meeting at CERN – M&O 23-25th October

Last week there was the meeting at CERN for the revision of the 2018 M&O budget for the LHC experiments.

O. Schneider reports that for what concerns LHCb there was an announcement of increase for the future M&O. The LHCb invoice for 2018 will be very similar to the prevision we had, but it seems that we will have a bigger request for 2019 and 2020. For the moment we do not have any precise numbers but it's almost sure that the plateau for the long term funding would be higher than expected.

Günther Dissertori reports that the CMS request seems to be decreasing compared with that foreseen.

•CHIPP website on the SCNAT webpage is ONLINE

T. Nakada announces that the CHIPP website is now online on the SCNAT webpage, it's available at:

<https://naturalsciences.ch/organisations/chipp> and it's reachable via the link: www.chipp.ch.

Tatsuya thanks Marc Türlér and Angela for their work on this and the informatics team of the SCNAT for their precious help. The CHIPP database is still based at the University of Zurich. In the future we could foresee hosting it at SCNAT as well.

•31/10 Dark Matter Day at the Luzern Planetarium (F.Canelli & L.Baudis)

T. Nakada reports on the event that took place a few days ago, the 31st of October at the Luzern Planetarium, the Dark Matter Day, and asks Florencia Canelli to explain how the event went.

Florencia explains that "The phantom of the Universe", a 3D movie, was projected in the planetarium on several days. On the 31st four students of the university of Zurich were present with a stand and posters ready to answer questions from the public. Claudia Seitz and Deborah Pinna (CMS, Canelli's group), Adam Brown and Julien Wulf (XENON, Baudis' group) answered the questions of around 30 very curious people. The event was successful and very much appreciated by the organizers at the planetarium and the public. The planetarium people did ask a more frequent collaboration for other events with the two University groups.

5. Pillar 1 White Paper (organisation & schedule) (→ [document](#))

Rainer Wallny presents his slides on the organisation and planning of the editorial board for the Pillar 1 White Paper writing. The group is formed by: Florencia Canelli, Gino Isidori, Klaus Kirch, Lenny Rivkin, Olivier Schneider, Tobias Golling and Rainer Wallny as organizer. They have fixed the next meeting for Monday the 6th of November at the ETH Rat in Bern. R. Wallny recalls the Board the scope of the Pillar 1 White Paper. As an input to the discussion on the strategy for Particle Physics in Switzerland in 2018, he stresses that they do not attempt any prioritization or recommendation. The White Paper should provide the summarises the current status and ideas for the future for the Strategic Workshop of April 2018. For this the editorial board has a tight schedule. The first meeting, the 6th November should draw the list of missing contents with respect to the SWHEPPS paper, should agree on the timescale for the next meetings and should set the working model and the technicalities of writing.

6. Computing steering board (→ [document](#))

Christoph Grab presents his slides where he recalls to the Board the main issues regarding the Computer steering board. At the last Board meeting it was decided to split the computing discussions into 1) LHC related and 2) more general CHIPP computing issues. In view of the longer term and more general CHIPP computing strategy within the CHIPP community he had proposed to create a forum for common strategic discussion. In order to call for a brainstorming meeting to discuss the needs and then to propose further steps he has asked to send proposals for contact persons for each CHIPP community.

He had requested one contact person from each of: Hep LHC, Neutrino, Low energy and precision measurements, Astroparticle and Theory. C. Grab regrets that so far only one name has been proposed. Each community should send the name of their representative to Christoph Grab or/and Angela Benelli.

One important aspect that could be discussed at the CHIPP computing board is that at this moment the Swiss government, SERI in particular, is putting a lot of emphasis on big data and machine learning. We could in general benefit from this trend in Switzerland for obtaining resources. Nicolas Serra asks if this would include also distributed computing and the grid project. C. Grab confirms that this would be part of it.

C. Grab adds that another topic of discussion would be the agreement between the SKA Organization and CERN about the collaboration in the area of extreme-scale computing.

Tatsuya Nakada adds that data and computing will be as important an aspect to be discussed in preparation for the new CHIPP Roadmap, as detectors and accelerators, since they are an integral part of physics research. Giuseppe Iacobucci informs the Board that at the university of Geneva there are a lot of discussions about the hardware of big data, especially for CTA and Astronomy.

C. Grab asks the Board to send proposals for one contact person for each CHIPP community to participate at the general CHIPP computing board.

7. CHIPP roadmap (→ [document](#))

Michele Weber presents his slides where he recalls to the Board the scope of the two Strategic Workshops of 2018: the Update of the CHIPP Roadmap to prepare for the Swiss contribution in the early 2019 to the Update of the European Strategy for Particle Physics that is expected to be approved by the CERN Council in May 2020. The first Workshop will be held in Murten between the 3rd and 6th April. During this Workshop we will focus on the status of the fields, the white papers, the options, developments, open questions and

planning to update the Roadmap. The second Workshop, the 13-14th September will define the roadmap and the priorities in the field.

In order to start the actual planning of the first Workshop the following participants have been contacted to be members of the Programme committee for the 1st SWICH Workshop 3-6 April: Michele Weber Chair, Thomas Gehrmann, Ruth Durrer, Klaus Kirch, Leonid Rivkin, Rainer Wallny, Andre Rubbia, Laura Baudis, Gino Isidori, Olivier Schneider, Mikhail Shaposhnikov, Giuseppe Iacobucci, Teresa Montaruli.

They have all accepted. Since the next board meeting will be in February it will be too late to start planning the organisation of the workshop afterwards. The programme committee will have to start working soon on the program and to evaluate if it's necessary to invite some external speakers.

A Blondel expresses his willingness to be part of the committee; he has knowledge about the strategy at CERN (FCC) and of the topics of neutrino physics for both the long base line and T2K. Florencia Canelli thinks that the programme committee could be as big as we like, the committee do not need to meet often and the members should give opinions and suggestions and this could be done via e-mail. Tatsuya Nakada recalls the Board that Michele Weber and the EBs will be in charge of the practical organisation of the Workshops. Some of the Board members voice their opinion that the committee should not be too big in order to be effective and not everybody could be part of it.

One way to proceed would be that the Programme committee asks for suggestions, then it elaborates them and then it submits the final program to the board for acceptance.

Michele Weber asks what are the relevant documents for the preparation of the programme: They could be the Roadmap, the white papers, and indirectly the SERI roadmap. Currently we are splitting the planning according to the CHIPP pillars as in the last roadmap. Loosening a bit the pillars' borders could be useful, and then maybe the pillars could be redefined in particular in the second workshop. N. Serra suggests more discussion time and less organised presentations.

The board is asked to approve the plan of proceeding that Michele has presented.

The Board approves the plan of proceeding for the planning of the First Workshop of Michele Weber.
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8. Update on ETC* membership

Tatsuya Nakada updates the Board on the ETC* membership: after the last Board meeting in August we have been in contact with the SNF, via Marc Türler, investigating if they would be interested in funding the CHIPP ETC* membership before sending an official request. Marc had contact with the SNF administration and at first they replied that this kind of activities can in principle be supported by the SNF and the SNF will have an internal meeting in December to talk about the possibility. Tatsuya reminds the Board of the NuPECC membership's case: Klaus Kirch took the initiative to produce a document explain the relevance of the NuPECC for various CHIPP activities, which was signed by the members of the community. This document was submitted to the Board that then agreed to request the NSF sporting the NuPECC membership fee. With a request letter from the CHIPP, then SNF kindly agree to pay the membership fee. Something similar might be required for the ETC*. The Chair proposes that G. Colangelo prepares the documentation to justify the CHIPP membership to ETC*..Then we will send it to the SNF before their meeting in December. Marc Türler agrees that it could be a good idea, and if something is ready in time, he will pass it to the responsible in the SNF that will go to the meeting in December.

The Board asks G. Colangelo to prepare justification for the ETC* membership.

9. Open Research Data: SNSF issues guidelines for data management plan (DMP)

Rainer Wallny, Ben Kilminster and Olaf Steinkamp (not present, excused) have accepted to share with the Board their experience in applying for the SNSF funding a few week ago that required filling in a document regarding the Data Management Plan (DMP).

Rainer proposes to make available the document to the Board. He explains that being part of CMS he has access to the experience of the US physicists that had to do for a similar requirement in the US funding application. Since the DMP is an experiment based policy and not an Institution policy he did not have to re-invent the answers but only need to adopt the standard CMS policy. Ben Kilminster submitted a document very similar being as well in CMS, but not identical. He took some information from the CERN policy he found in the open data portal on data preservation and accessibility.

They both submitted their requests and for the moment they do not have any feedback. They will have to continuously update their requests at different stages of the advancement of the request: before the release of the funds and at the end of the project when the SNF will ask whether they followed the DMP.

B. Kilminster suggests having a common DMP template that could be used by the CHIPP members> Not only for the applicant for a LHC experiment, or in general to a big experiment, but also for a smaller

experiment this could be very useful and normally the answers should be quite standard.

Some Board members find several entries in the SNF questionnaire not adequate for a particle physics experiment and they wonder if the SNF would be willing to change them since this first submission with the DMP is not considered in the funding evaluation but as a preparation for the future.

Alain Blondel explains that there is an MoU between CERN and the experiments about the intellectual property of the results but wonders whether there is an agreement also for the “data management”, especially for the NA61 experiment and eventually for T2K. It's very unlikely that CERN set a policy for the individual experiment on data management, it's up to every experiment to fix it, and we cannot expect CERN to supply this information to the SNF.

For what concerns the theory groups, the Data management Plan is very minimal and with standard answers.

In spring there will be other groups that have to submit the funding requests and they will be able to tell their experience.

INFORMATION ITEMS

10. ETHZ – Institute of Particle Physics and Astrophysics

Günther Dissertori announces that in ETHZ the Astronomy Department has been closed, two of the Professors became independent Professors, and the others have been merged to the Particle Physics in a new Institute of Particle Physics and Astrophysics. This change has no implication for CHIPP since the Astrophysics Professors are part of CHAPS and not CHIPP.

11. Strategic Secretary CERN

Olivier Schnieder reports that the Council has appointed Prof. Halina Abramowicz (Tel Aviv University) as Strategic Secretary for the next update of the The European Strategy for Particle Physics. The Strategy Secretariat will be formed by: Prof. Halina Abramowicz (Chair) Prof. Keith Ellis (SPC Chair) Prof. Lenny Rivkin (Chair of the European Laboratory Directors group) and Prof. Jorgen D'Hondt (EFCA Chair).

The CERN Council chose the Strategy Secretary among seven candidates. Olivier Schneider submitted the names of the candidates to the Board asking for opinions on how to orient the Swiss vote. A total of 15 people gave their opinions. In the last session of the Council there were six rounds of votes where at every vote the candidate with the fewer votes was eliminated.

12. Next CHIPP Plenary and Board meetings

Andreas Shopper announces that the SPS/CHIPP Joint annual meeting will be held at the EPFL between Wednesday 29th august and the Friday 31st august. The Board and Plenary meetings for the SPS and CHIPP will be held the 28th august.

Tatsuya Nakada announces that the next Board meeting will be held the 15th February at 13:15 at the SCNAT in Bern.

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

- Basel – no news
- Bern – no news
- Geneva – A position of full or associate professor opened for the successor of Alain Blondel.
- Zurich – Nicolas Serra has been appointed as associate professor and the Board applauds him.
- EPFL – Soon there will be an opening of a tenure track assistant professor in experimental particle physics in anticipation of Aurelio Bay and Tatsuya Nakada retirements.
- ETHZ – Soon there will be an opening of a joint position from ETHZ and Zurich in accelerator physics. Lesya Shchutka (2011 CHIPP Prize) has been appointed as assistant professor at ETHZ.
- PSI – no news

14. A.O.B.

- **The official launch of the new Astroparticle Physics European Consortium (APPEC) roadmap** (→ [document](#))

Teresa Montaruli due for the last item of the agenda is unable to participate in the meeting so Tatsuya Nakada presents her transparencies. There will be the official launch of the new Astroparticle Physics European Consortium (APPEC) roadmap on the 9th January in Brussels, Tatsuya Nakada will try to be present at the Ceremony.

- **The World Conference of journalists in 2019 in Lausanne**

Angela Benelli announces that the next World Conference of Journalists will be held in Lausanne in 2019 at the SwissTech Convention Center, on the campus of the Ecole Polytechnique Fédérale de Lausanne (EPFL) and the University of Lausanne (UNIL). The Science Journalists' association of Switzerland France and Italy organizes the Conference, and it has the support of CERN and of the EPFL. It's a unique opportunity to organize visits to the local Laboratories and to promote your research. If somebody would like to participate in the organization of an event please contact Angela or directly Arnaud Marsollier of the CERN Press Office.

The Chair ends reminding the Board that in spring there will be the request to update the FLARE table, and that in February we have to hand the annual report to the SCNAT. For all the activities done this year in the Institutes please send the information to Angela.