

Minutes of the EB meeting on 18. January 2008

Time/place of the meeting: Gare du Lausanne, 18. January 2008, 10:00 to 13:00h

Present: Antonio Ereditato, Tatsuya Nakada, Martin Pohl, Ueli Straumann (chair)

1. **Agenda** was approved

2. **Minutes** of the last meeting were approved

3. **Status of open items from last EB meeting**

- The **DevDet** proposals to the FP7 were followed up by Martin, for a list of the individual contributions see the attached spreadsheet. (A1).
- **CHIPP workshops:** W.r.t. to the table in the last minutes, some more details became available:

<i>Research field</i>	<i>Responsible</i>	<i>Date</i>	<i>Place</i>
Detector R&D (all research fields)	M. Pohl	11./12. June 2008	Univ. of Geneva
"Beyond present generation neutrino experiments"	A. Ereditato / A. Rubbia	18./19. Nov. 2008	ETH Zürich
High energy frontier	U. Straumann	January 2009	Uni Zürich
Astroparticle	T. Nakada	June 2009	

- **CHIPP prize:** Antonio presented a detailed plan (see attachment A2), how this prize could be given to active PhD students affiliated to a Swiss group on the basis of their outstanding contributions to experimental or theoretical particle physics. We aim for the September - plenary this year to award this prize for the first time.
- contact to **SPS:** to be followed up by Ueli
- The CHIPP **website** has been updated, and will be maintained by Ueli with the help of Christoph Grab, ETHZ. The theory institute of Berne needs to be added to the list of institutes.
- **RRB for the LHC experiments:** The SBF has agreed to our proposal. Thus, starting from April, the main Swiss delegate to the RRB's will be the responsible for the common M&O request. Presently this is Tatsuya, who will contact the relevant offices at CERN to issue correct invitations. In addition, each experiment may delegate an additional physicist to the RRB, according to their wishes.
- Allan Clark has kindly agreed to continue to be the contact person for large international conferences (**ICHEP and Lepton-Photon**). This mainly concerns the invitations of Swiss participants.
- Antonio has received from the previous CHIPP-chairman the old **CHIPP tables** with the financial wishes of the community. For the next meeting he will combine the information from 2005 to present in a coherent and transparent form. We aim for a yearly updating of the tables, according to the schedule

below:

1. Before the March CHIPP board meeting, members are invited to hand in requests for new or modifications of existing entries. This new requests will be discussed in the CHIPP board.
2. During summer, discussions between the EB and the authors of the requests may take place.
3. September CHIPP board meeting: The board adopts a new version of the tables for presentation to the authorities as a basis for decisions for the following year (e.g. LA FORCE meeting in December).

It was clarified once more, that these tables represent the *wishes for large scale projects of the Swiss particle physics* research community, which should however remain within a reasonable limit. But obviously, it is the responsibility of the funding authorities to map those wishes to existing funds or to create new funding lines.

- **ACCU representative:** We are thankful to Klaus Freudenreich and the ETH group, that Klaus will continue to act as the Swiss ACCU representative for 2008. The CHIPP plenary meeting in September 2008 will have to elect a successor of Klaus.

4. Items coming up since the last EB meeting

- **SCOAP3:** The open access publishing project is looking for some smaller funds from the CERN member states. In contrast to most other countries, Switzerland did not appear on a table in a recent progress report of R. Aymar. A. Rubbia, who was following up this so far, explained the present situation in an e-mail message to the CHIPP chair (attachement A3). The EB accepts with many thanks A. Rubbia's offer to continue to take care of the Swiss contributions and act as a contact person to the SCOAP3 group. He is expected to report to the EB on new developments and summarise the status to the CHIPP board meeting.

5. Report from LA FORCE meeting

- Ueli reported from the meeting of the LA ("Lenkungsausschuss") **FORCE** meeting, which took place on December 7, 2007. The recommendations, which resulted from this meeting, will be sent to the CHIPP board members, as soon as they are finalized. They are very similar to previous years, but include now the possibility to fund R&D activities to prepare for the LHC upgrade.
- The EB discussed, how new, **large non-CERN projects** should be handled. At this point in time this seems to concern mainly new projects in astroparticle and neutrino physics. It is clear, that new funding lines can only be created for the next federal funding period 2012-15, as was confirmed in a recent discussion between Paul-E. Zinsli, deputy director of the SBF, and Martin Pohl concerning a possible Swiss contribution to the CTA project. Decision will have to be made in early 2011, thus CHIPP should aim for starting to prepare the relevant information in 2009. For the next EB, Ueli will prepare a draft schedule for CHIPP activities, which should finally lead to documents, on the basis of which the authorities will be able to make decisions.

6. Status of SUK-IKP money.

- The **official decree** is expected for February, money could flow earliest in March. The required local contributions of the universities will be explicitly mentioned in the decree and the yearly reporting will have to include this local money as well.
- A **draft job announcement** for the first 4 PostDocs was accepted after small modifications (see attachment A4). As the next step, the agreement of the involved group leaders will be required. Then it will be advertised in the CERN Courier and online.
- As agreed last time, the **admission committee** consists of the present CHIPP EB. The committee will take into account the recommendations of the involved group leaders. For this purpose Ueli will forward all applications to the respective group leaders, such that they can formulate their judgement on the

applicants.

- Martin reported on the evolution of the **PRODOC** system. Apparently the procedure for applications was significantly improved by the responsible persons of SNF and SUK. We aim for a first request for an education module (containing graduate school overhead) and at least one or two research modules (containing PhD student salaries) for the deadline of April 1. Martin will coordinate these requests.

7. Coordination of graduate teaching in Switzerland

- Martin explained his vision of a Swiss network of graduate schools, which should include all existing activities, as far as possible.
- The EB took note of the well organized CHIPP school, which was taking place at this point in time in Glarus. The majority of the present Swiss PhD students in particle physics took part in this school, which was a great success, also in terms of the quality of the presentations.

8. News from ECFA

- Nothing special to be reported. Slides from the recent R-ECFA meeting (Nov. 29, 2007) are available from <http://indico.cern.ch/conferenceDisplay.py?confId=23872>. Among other itmes there were reports on the activities to study a possible Electron-Proton Collider in LHC and on the status of the FP7 requests to the EU by the accelerator community and by the detector R&D groups. (This information was added to the minutes after the EB meeting).

9. News from Council

- The report about the December council has been distributed to the Swiss group leaders of the LHC experiments as usual.
- Ueli explained shortly the European strategy situation. Council hold its first European Strategy Session on December 13. The proposed Council Strategy Commission had not been approved, since it was lacking a clear remit, and the requisite profile and criteria for selection of its members was unclear.
- Furthermore the Council unanimously appointed in his European Strategy session the members of the European delegation to FALC (Funding agencies for Large Colliders): M. Spiro (France), B. Vierkorn-Rudolph (Germany), R. Petronzio (Italy), J. Fuster (Spain), R. Wade (UK), R. Aymar (CERN DG) and T. Akesson (council president) as chair. (This information was added to the minutes after the EB meeting).

10. a.o.b.:

- The agenda for the CHIPP plenary meeting in September will have to be prepared in the June EB meeting

The meeting ended around 13:00h.

20. January 2008

Ueli Straumann

Attachments:

A1 spreadsheet on FP7 DevDet contributions from Swiss groups

A2 CHIPP prize for the best Swiss graduate student

A3 e-mail message from A. Rubbia concerning SCOAP3

A4 CHIPP PostDoc announcement

A1 spreadsheet on FP7 DevDet contributions from Swiss groups

1/18/2008

FP7 IA project: DevDet

3	COORD		Microelectronics for particle physics	Sandro Marchioro	
		3.1	ASIC technologies and enabling tools		
		3.2	Shareable IP block		
		3.3	Auxiliary technologies (packaging, interconnects, chip-to-chip stacking)		

Institute WP **Own commitments** **Requested Funds (€)**
 PSI
 Horisberger ?

WP4	COORD		Project office for Linear Collider detectors	Martin Pohl	For the integrated detector tests at the test beams, as well as for Linear Collider detector development in general
		4.1	Interfaces and integration		
		4.2	Information and documentation		
		4.3	Scheduling, reporting, cost		

Institute WP **Own commitments** **Requested Funds (€)**
 UniGe Pohl 4.1 - 4.3 1.2 FTE physicists over 3 years equivalent to 250 k€
 100 k€ total consumables
 0.5 FTE engineer over 3 years, equiv. 113 k€
 40 k€ total material/licenses

ETHZ
 Dissertori 4.1 ?

8	SUPP		Transnational access European irradiation facilities	Lucie Linssen, Steinar Stapnes	Include Frascati? Requires to change WP name? To establish a final list, determine which facilities are useful for the project
		8.1	PSI?		
		8.2	TSL?		
		8.3	UCL?		
		8.4	Ljubiana?		
		8.5	Prague?		

Institute WP **Own commitments** **Requested Funds (€)**
 PSI Hajdas 8.1 200 hours at PIF, PROSCAN or other PSI facilities 50 k€/year flat rate over 4 years

WP10	RTD		Test beam infrastructures for fully integrated detector tests	Joachim Mnich	
		10.1	Beam line(s) set-up and generic infrastructure (e.g. expt. magnets)		
		10.2	Common DAQ and detector controls for integrated detector tests		
		10.3	Tracking infrastructure		
		10.4	Calorimeter prototype infrastructure		
		10.5	Particle flow reconstruction		

Institute WP **Own commitments** **Requested Funds (€)**
 UniGe Pohl 4.1 - 4.3 1.2 FTE physicists over 3 years equivalent to 250 k€
 120 k€ total consumables
 0.5 FTE engineer over 3 years, equiv equivalent to 168 k€
 56 k€ total consumables

ETHZ
 Dissertori ? ?
 For SLHC Steinar will collect the inputs from Nigel Hessey, Franz Muheim and Jordan Nash
 Synergy with R&D needs of neutrinos, super-B and CLIC

WP11	RTD		Test beam infrastructures for stand-alone detector tests	Francesco Forti, Emilio Radicioni, Steinar Stapnes	Synergy with SLHC needs
		11.1	Beam lines set-up (low energy and high energy), including special timing structures (where feasible) and generic infrastructure (e.g. expt. magnets)		
		11.2	Beam particle identification and beam timing infrastructure (TOF, Cherenkov, RICH)		
		11.3	Coincidences, particle tagging and special triggers		
		11.4	DAQ for stand-alone tests		
		11.5	Detector cooling compatible with future tracking detectors		

Institute WP **Own commitments** **Requested Funds (€)**
 UniGe Clark 11.2 - 11.4 1 engineer 0.5 FTE equivalent. 50 K€/year
 11.5 possibly 1 designer 1.0 FTE equivalent 70 K€
 2 physicists 1.2 FTE equivalent 70 K€
 1 PhD student 0.8 FTE equivalent 25 K€
 Approximately 100 K€ in R&D funds per year for SLHC development 50 K€/year + overheads

UniGe
 Blondel 11.2 - 11.4 1 FTE physicist 0.5 FTE physicist
 10 k€/year travel funds 50 k€/year travel funds
 ETHZ
 Rubbia 11.2 - 11.5 500 k€ total over 3 years 250 k€ total over 3 years
 ETHZ
 Dissertori ? ?
 UniGe
 Ereditato 600 k€ total over 4(?) years 200 k€ total over 4(?) years

A2: 2008 CHIPP Prize for the best PhD students in Experimental or Theoretical Particle Physics

- The goal of the CHIPP PhD student Prize is to reward the best students preparing their PhD Thesis in Experimental or Theoretical Particle Physics. Emphasis will be given to the quality of their present work and to its relevance within their research group, as well as to novel ideas possibly brought up by the students.

- All PhD students affiliated to CHIPP that did not complete yet their PhD thesis may apply upon nomination of their Supervisor. Each student can apply only once.

- The Prize advertising must be issued by April 30 of each year. It will be posted on the CHIPP web site and sent as a poster and e-mail to all CHIPP Board members. Applications must be sent to the CHIPP Executive Board (EB) by June 30 of each year.

- Applicants must submit a CV, the Diploma Thesis, the list of publications and internal notes, a report (≤ 15 pages, including figures and references) outlining their achievements in the PhD work, the proposal/recommendation letter by the supervisor, and reference letters by two other professors or researchers not belonging to their institution. All papers and communications must be written in English.

- The CHIPP EB selects a short list of 3-6 students. This is done by attributing a total of ≤ 100 points:

≤ 15 for the diploma work

≤ 20 for the CV and publication list

≤ 25 for the reference letters

≤ 40 for the written document

The attribution of points is made by averaging the marks given by the CHIPP EB members.

- The list of selected students is submitted to all ordinary professors of the CHIPP Board. The student's marks will be forwarded as guidance to the CHIPP professors in view of the final selection. Each professor chooses 2 students at large and communicates their names to the CHIPP EB. The dead line for communicating this choice is defined by the CHIPP EB. The student with the largest number of nominations is winner. In the case of equal number of nominations the CHIPP EB will decide. The CHIPP EB unofficially informs the winner.

- The awarding ceremony will take place at the plenary CHIPP board in Fall. The winner will get a diploma plus 3000 CHF. The CHIPP EB will write a 40-50 words motivation to be printed on the Diploma. The motivation will also be posted on the CHIPP Web page, year by year.

- The winner will have to give a 30 m talk at the plenary CHIPP meeting presenting his/her current research activity.

A3: e-mail message from A. Rubbia concerning SCOAP3

From andre.rubbia@cern.ch Mon Dec 17 11:31:22 2007
Date: Mon, 17 Dec 2007 11:30:59 +0100
From: André Rubb <andre.rubbia@cern.ch>
To: Ulrich Straumann <strauman@physik.uzh.ch>
Cc: Jean-Pierre Ruder <jean-pierre.ruder@sbf.admin.ch>
Subject: Re: SCOAP3

Dear Ueli,

thanks for the email. I'm not sure who was giving the report at the Council (Was it Mele?) but to say that Switzerland is not yet active is not entirely correct.

Together with Stephan Egli from PSI, we have followed as close as possible what is happening in SCOAP3.

I received a letter from the CERN DG on December 4th stating that Expressions of Interest have been collected from Germany, Italy, France, Greece and CERN, which would correspond to more than 25% of the total required funding. In addition, discussions are advanced in many other European countries. Based on this, we should pursue our investigations in Switzerland. According to Aymar, there is the hope that if all European countries support it, negotiations with the United States, Japan, China and Russia will be possible (in fact, he says, without it "it will be particularly difficult").

In Switzerland, all discussions within CHIPP have been positive. A report was made by Egli at a plenary. Our conclusions are that the best way to approach the problem is to contact the Swiss Library Consortia. Fortunately there exists only one such consortium, so discussion should be simplified.

The web address is: <http://lib.consortium.ch/> The contact is Susanne Göttker susanne.goettker@library.ethz.ch .

There is also a "Leitungsgremium" for the consortium, consisting of

- Präsidentin: Gabrielle von Roten, Cheffe du Service de coordination des bibliothèques, Université de Genève
- Vize-Präsident: Hannes Hug, Direktor Öffentliche Bibliothek der Universität Basel
- Projektleiter: Dr. W. Neubauer, Direktor ETH-Bibliothek Zürich
- Dr. Kurt Wechsler, CRUS

They define the strategic directions of the consortium.

Since I invested quite some time in this business, I would like to continue to be involved (probably should be discussed by the new EB next year).

Following Aymar's letter (to which I have already responded by email that I would inquire and report to him as soon as possible), I plan to contact the library consortium and ask them for their advice.

The amount of CH money requested by Aymar is 143KEuro per year. I propose that depending on the answer of the consortium, the CHIPP EB finds other ways to complement it, if needed.

best regards,
André

A4 CHIPP PostDoc announcement



Swiss Centre for Advanced Studies in Particle Physics in the LHC Era

<http://www.chipp.ch/>

The Centre has been created by the Swiss Institute for Particle Physics (CHIPP) to coordinate and support the analysis and interpretation of data collected by the ATLAS, CMS and LHCb experiments, operating at the CERN Large Hadron Collider (LHC).

Post-Doctoral Research Positions

CHIPP invites applications for several post-doctoral research positions to work on the LHC experiments currently in preparation at CERN.

Swiss groups have played a leading role in the design and construction of the ATLAS, CMS and LHCb experiments at the LHC. With the first collisions expected at the LHC during 2008, the groups intend to strengthen their contribution to data analysis aspects of these experiments. You would take a prominent role in one of the Swiss groups at the Universities of Berne, Geneva, EPF Lausanne or ETH Zurich. You would have an excellent opportunity to influence analysis strategies and to make significant contributions to the physics output of the LHC experiments. You would also participate in the supervision of PhD students. For more details please contact the respective group leaders directly by e-mail.

Further information is available from:

University of Berne: Prof. A. Ereditato <Antonio.Ereditato@cern.ch> Tel.+41 31 631 8566

University of Geneva: Prof. A. Clark: <Allan.Clark@cern.ch> Tel.+41 22 379 6275

EPF Lausanne: Prof. A. Bay: <aurelio.bay@epfl.ch> Tel.+41 21 693 0474

ETH Zurich: Prof. F. Pauss: <felicitas.pauss@phys.ethz.ch> Tel. +41 44 633 2040

The starting dates for these positions are negotiable, but an early start date is preferred. The initial appointment is for two years with the possibility of a one year extension.

Applicants should send a full CV and publication list and the names and contact addresses of three referees by e-mail to the address below. **Closing date for applications is March 1st, 2008.** Candidates will be selected for the positions by the CHIPP admission committee based on the recommendations of the Swiss LHC group leaders.

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