

Agenda item 1: Agenda

The Draft Agenda has been distributed on 8 August;
no additional items have been requested until 18 August.
The final Agenda has been distributed on 22 August.

Any other business?

Agenda item 2: Apologies and Proxy Votes

- The following Proxies have been designated:
Colangelo (for Becher), **Ritt** (for Horisberger), **Dissertori** (for Chiocchia), **Ribordy** (for Bay), **Straumann** (for Gehrman), **Nakada** (for Schneider)
- The following substitutes have been announced:
Steinacher (**Moor**) [2 Sept]
- The following apologies have been received:
Burkhard, Meylan, Krusche, Antusch, Thielemann
- **The Quorum has been reached**

Agenda item 3: Minutes of the last meeting

No comments and requests for amendments have been received regarding the minutes of the last CHIPP Board 2011-02 (11 April 2011).

PS: The minutes have been made available shortly after the meeting on our website www.chipp.ch

May thanks to Jean-Pierre Ruder for taking high fidelity minutes in a timely fashion!

Agenda item 4: Elections and Re-elections

Proposal elaborated on basis of nominations and availabilities
Meeting document distributed on 22 August 2011

CHIPP EB – proposed composition (1 Jan 2012 – 31 Dec 2013)

- Klaus Kirch (2nd term)
- Laura Baudis (2nd term)
- Olivier Schneider (1st term)
- Gilberto Colangelo (1st term)

CHIPP Chair – proposal (1 Jan 2012 – 31 Dec 2013)

- Klaus Kirch

Does the Board request a **secret vote**?

The Board is requested
to **approve** the composition of the Board and
to **elect** its Chair

Agenda item 5: Request for Honorary Membership

- Open for CHIPP Members that have retired from their active professional life or have acquired the status of Professor emeritus
- Same rights except voting right
- No membership fee
- Six requests received (see meeting doc.):
 - Maurice Bourquin (Board)
 - Maurice Gaillard (Board)
 - Claude Joseph (Board)
 - Peter Minkowski (Board)
 - Klaus Pretzl (Board)
 - Peter Truöl (Plenary)

The Board is asked
to **recommend** these applications to the Plenary.

Agenda item 6: Swiss Centre for Advanced Studies Status Report and Alternative Way Forwards

Planned for this Board meeting: final discussion and approval of the request in view of its submission to the SUK at end August
BUT:

- Sketch proposal **NOT** supported at CRUS (beginning July) because “... the network is considered being sufficiently efficient and does not need further funding.”
- EB’s idea to continue the work and to submit the project to SUK without recommendation by CRUS **strongly discouraged** by Vice-Rector Wyler (ZH) and Rector Vassalli (GE).
- Rector Vassalli (GE) sees reasonable chances for an NCCR (call open right now), **encourages CHIPP to proceed to an NCCR proposal sketch.**

Agenda item 6: Swiss Centre for Advanced Studies NCCR Particle Universe (1)

Sketch NCCR “Particle Universe” (distributed) :

- Includes accelerator-based, non-accelerator-based particle physics and particle theory, **all pillars** from the RoadMap
- Implements **transversal structures** between main directions of research efforts as per RoadMap & Implementation document
- Exploits the **synergies** in terms of experimental techniques, analysis methods, and cross-fertilization between theory and experiment
- Aims at ensuring sustainability of long-term projects in the field and at increasing the **competitive edge** of Switzerland in globalized competition.
- **Enables us to do experiments** that could otherwise not be done.
Example: $\mu \rightarrow 3e$ requiring more intense beams and new detectors.

NCCR Structure

NCCR Particle Universe (2)

NCCR PARTICLE UNIVERSE

High Energy and
Precision Physics

Neutrino Physics

Astroparticle
Physics

Accelerator Physics

LHC
Experiments

PSI
Experiments
Neutron and
muon
properties

Long
base-
line
exp'ts

Future
oscil-
lation
exp'ts

Neutri-
noless
double
beta
decay

Multi-
messen-
ger

Dark
Matter

Dark
Energy

Future
Colliders

High
intensity
beams

TRANSVERSE FOCAL POINTS:

Theory:

Detection technology:

Analysis methodology:

Education:

cosmology, particle theory and phenomenology, mathematical tools

pixels, light detection, liquid noble gases

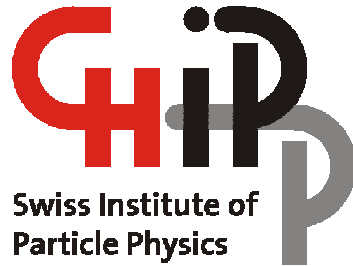
data handling, grid and cloud computing, statistical interpretation

PhD program, outreach

Agenda item 6: Swiss Centre for Advanced Studies NCCR Particle Universe (3)

Some elements of the NCCR Particle Universe:

- Increased collaboration & information exchange between **theory and experiments** to shorten time-lag between major progress in one and awareness in the other field
- Common efforts for development of **detector technologies** to optimize performance and affordability
- Proper exploitation of existing and new **computing facilities** and ensure their integration in the European context
- Good standard of **undergraduate education** in PP
- Coordinate and streamline **doctoral programmes** in PP
- Improve **communication with general public** and in particular the young generation



Agenda item 6: Swiss Centre for Advanced Studies NCCR Particle Universe (4)

NCCR goals:

- Coordinate and support the Swiss return of investment from LHC experiments, neutrino and astroparticle physics experiments by creating **PhD student and post-doctoral fellowships**, closely networked and embedded in a Swiss-wide doctoral and post-doctoral research and education program.
- Coordinate and support **upgrade projects for the LHC experiments** ATLAS, CMS and LHCb, to help the detectors cope with the ultimate LHC performance and maximize the physics output for the Swiss participants and the experimental communities at large.
- Increase the **Swiss impact in the planning process for future accelerator facilities**, focusing on CERN projects beyond the present LHC.

Agenda item 6: Swiss Centre for Advanced Studies NCCR Particle Universe (5)

NCCR goals cont'd:

- Coordinate and support the Swiss contribution to the construction, commissioning and analysis of **long base line ν oscillation exp'ts.**
- Help with the planning and construction of **future large-scale neutrino observatories** and the corresponding powerful beams.
- Coordinate and support the efforts to experimentally assess the nature of neutrinos through the currently planned **and future large-scale facilities to search for neutrino-less double beta decay.**
- Intensify the Swiss participation in experiments seeking to identify the particle content of **Dark Matter**, using both direct and indirect detection methods.
- Implement a cooperative **multi-messenger approach to high-energy astrophysics** between Swiss groups to identify the nature of astrophysical particle sources and accelerators.

Agenda item 6: Swiss Centre for Advanced Studies NCCR Particle Universe (6)

A lot of work ahead of us:

- Define a coherent and full **Research Program** for the period 2014-2017
- Demonstrate the **added value** of a NCCR
- Establish **Research Plans** for the individual projects
- Identify **actions** for knowledge and technology transfer, advancement of young scientists and women, and communication
- Set up the **structure of the NCCR** and identify the leading house and the partners
- Establish a **budget** for 2014-2017

Agenda item 6: Swiss Centre for Advanced Studies NCCR Particle Universe (7)

Schedule:

- Deadline for submission of the sketch at SNF:
16 January 2012

BUT:

- Deadline for submission at each of the participating universities:
31 October 2011

At SNF:

- Formal check
- Scientific evaluation by at least two international experts
- Scientific evaluation by an interdisciplinary committee
(8 top shots from abroad)
- Structural evaluation by Forschungsrat Abteilung IV SNF

Agenda item 6: Swiss Centre for Advanced Studies NCCR Particle Universe (8)

Discussion in the Board: NCCR: yes or no?

•If **YES**:

- define content, establish research programmes and individual projects, budget, etc. (your contributions!): until 19 September
- first draft available/distributed to the Board: 23 September
- feedback until 3 October
- second draft available/distributed: 7 October
- final feedback until 17 October
- final version with the help of communication experts: end October

•If **NO**: how shall we keep the momentum and thrust, what is the fate of CHIPP?

Agenda item 7: CHIPP Association: Membership Fee (1)

Context of this topic: failed SUK request and uncertain NCCR
EB thinks it is wise to develop a funding which is entirely under
control of the Board Members

Proposal:

- CHIPP to remain active in Workshops and schools,
- RRB etc
- CHIPP to continue dialogue with SER, SNF, SCNAT on basis of long term financial tables, international round table
- CHIPP to keep assistant to the Chair, Administrator and accountant = $\frac{1}{2}$ JPR
- Estimated budget (as now): 120k/year
- Supported by all active Board Members with equal share (~2.5 kCHF/capita/a)
- Start gradually (2012: 50%, 2013: 75%, 2014ff: 100%)

CHIPP Board 2011-03, 1/2 September 2011

Agenda item 7: CHIPP Association: Membership Fee (2)

Procedure:

- Membership fee is defined each year in summer by Board (basis: budget and list of Board Members in August)
- Payment within 60 days (individually or collectively)

The Board is requested
to **accept** the philosophy
to **approve** the progressive contributions
to **agree** to deal with the budget in the summer meeting
to **decide** that the fee is to be set each year in summer on the basis of the then valid list of Board Members
to **set** the payment deadline of 60 days
to **decide** on penalties and payment responsibilities
to **instruct** the EB to present the 2012 budget and fee in January

Agenda item 8: Report on CHIPP activities

1. FORCE requests
2. CHIPP tables
3. SER Roadmap
4. Round Table International

Other items reported in the Plenary:

CHIPP activities

CERN Council

ACCU

ApPEC/OECD

Computing

SNF Report

European Strategy Group

ECFA

Outreach

Agenda item 8.1: FORCE grants 2011

FORCE: amounts requested for 2011 (status July 2010)

Project	Experiment	Amount allocated	Manpower (MP)	author
Developping, fabrication and testing of a prototype CLIC accelerating structure with damping material for higher order mode and wake-field suppression	Accelerator	108 k	YES	Rivkin
Proton-Proton Collider Physics with the ATLAS Experiment at CERN	ATLAS	314 k	YES	Ereditato
Physics at the LHC at CERN	ATLAS	321 k	YES	Clark
Secondary Organic Aerosol Formation in the PSI Smog Chamber and at CERN	CLOUD	120 k	YES	Baltensperger
Support for CMS Tier3 Analysis Facility	CMS	98 k	YES	Grab
Operations and Upgrades of the Barrel Pixel Detector and the ECAL of the CMS experiment at the LHC	CMS	577 k	YES	Dissertori
Particle Physics at CERN	CMS/DIRAC	177 k	??	Amsler
GRID Infrastructure for LHC experiments	GRID computing	707 k	YES	Grab
Construction of the LHCb experiment	LHCb	300 k	YES	Straumann
High-precision CP violation physics at LHCb	LHCb	297 k	YES	Schneider
M&O for the LHC experiments 2011	M&O	1'042 k	NO	Nakada
A long baseline numu-nutau appearance experiment in the CNGS beam from CERN to Gran Sasso	OPERA	433 k	YES	Vuilleumier
Hadron production by 30 GeV protons off the T2K target in the NA 61 experiment and R&D on Neutrino Projects at CERN	T2K/NA61/MICE/AIDA	135 k	YES	Blondel
High Energy neutrino and Particle Physics and Search for Dark Matter in the Universe at CERN	T2K/Neutrino Detector/ArDM	170 k	NO	Rubbia
Total (14 requests)		4'799 k	11 req. with MP	

Agenda item 8.1: FORCE requests 2012

Don't forget:

- That the FORCE funding for 2012 stands at 4.8 MCHF (subject to approval of the budget by the Parliament)
- To submit your FORCE requests in time
- To provide JPR with a copy of your request (or at least with a copy of the financially relevant sections 10., 11. and 12.)
- To send your contributions to the M&O request for 2012 to JPR (deadline 23 September)

Agenda item 8.2: CHIPP tables

- Responsible EB member: Laura Baudis
- New data collection is about to start
- Please provide the requested information quickly
- Please use the guidelines as agreed last year (see overleaf)

Agenda item 8.2: Guidelines for CHIPP tables

To be included:

- Funds required on top of regular SNF project funds
- FORCE funds
- Sinergia funds

→ Amounts should

- concern large research infrastructures
- correspond to the year they are paid
- correspond to funds planned to be requested (and with a reasonable chance of being granted)

→ Relation to projects in CHIPP tables should be made clear

NOT to be included:

- Funds being part of a regular SNF grant
- Institute funds

Agenda item 8.3: SER Roadmap

- The Roadmap has been published at the SER website after the Federal Council has taken note of it;
- First compilation of large infrastructures of importance for Switzerland;
- Construction of individual projects from the Roadmap will have to be done within existing resources (most probably no additional or special funding available);
- Helps to back-up the position of Swiss scientists involved in new projects vis-à-vis their colleagues from other countries (see also next item).

Agenda item 8.4: Round Table International

- Successful meeting with SCNAT, SER, SNF, CRUS on 26 May 2011 (draft minutes on the CHIPP page)
- Topics discussed:
 - Future structure of ApPEC: annual contribution possibly paid by SNF, connection to Commission of Astronomy and Commission for Space Research (both SCNAT)
 - ICFA Seminar: ~~SER~~ or PSI attendance likely
 - CTA Resource Board: U. Straumann = Swiss representative
 - MoU for LHC Detector upgrade: agreement to extend the present MoUs, to be signed by the scientists
 - European GRID Initiative: Swiss connection recognized as being a priority

Agenda Item 9: Status on new professorships

- Report from each institute

Agenda Item 10: Impressions from the Plenary

Please comment on

- Scientific programme
- Location
- Hotel
- Attendance
-

Agenda Item 11 & 12: Next Meetings

- **Board:**
12 (Thu) January 2012
ETHZ H nggerberg
Preceded by a lunch
- **Plenary:**
12/13/14 (Wed/Thu/Fri) September 2012
Eastern Switzerland (possibly region Appenzell/St-Gall)

→ Please block the dates in your diary