

## Results of the Plenary meeting 2012 on 13/14 September 2012

Time/place of the meeting:

Kartause Ittingen, 13 September 2012 (10 a.m.) - 14 September 2012 (4 p.m.)

Conference programme see Annex 1. The individual talks can be found under  
<https://indico.cern.ch/conferenceTimeTable.py?confId=187119#20120913.detailed>

*This document is not meant as abstract or summary of the individual talks, but limits itself to the administrative activities dealt with by the Plenary session and highlights the 'calls' from the Committee representatives.*

### 1. CHIPP Prize Award

The CHIPP Prize for the best PhD student in experimental or theoretical particle physics is awarded for the fifth time. Out of eight candidates and following the new procedure published on the CHIPP website, the CHIPP Selection Committee decided to award the prize to Franz Herzog from ETHZ for his dissertation (in prep.) on QCD corrections and non-linear mappings. The *laudatio* says: "For his contributions in developing a new method for NNLO perturbative calculations and its application to the phenomenology of the Higgs boson".

The Plenary is informed about the selection; the winner receives the prize money and a preliminary diploma, and presents his current research activity

<https://indico.cern.ch/getFile.py/access?contribId=27&sessionId=4&resId=0&materialId=slides&confId=187119>

### 2. CERN Council

The Swiss scientific CERN Council delegate (U. Straumann) gives an outlook to next week's Council meeting, where the following topics will be dealt with:

- CERN offers a Prize for 'Fundamental Physics for Society',
- the fact-finding mission will present the results from its visit to Ukraine, which has been undertaken in view of the Ukrainian intention of becoming an Associate Membership,
- the DG will give status reports about Cyprus (Associate Member State in the pre-stage to Membership), and Brazil (in the process of Associate Membership),
- Council will be informed about CERN having acquired the status of permanent observer at the UN General Assembly,
- election of the new President of Council.

The European Session of Council will receive a debriefing from the open symposium Krakow (see below). The Chair thanks U. Straumann – who will step down as Council delegate at the end of this year – for the services rendered since 2007 (applause), and informs that the SER has designated O. Schneider as his successor as from 1 January 2013.

### 3. European Strategy Group

The Scientific Secretary of the Strategy Group (Nakada) informs briefly about the open symposium Krakow (10-12, September 2012); detailed information is available at <http://espp2012.ifj.edu.pl/>.

He considers the meeting as quite successful where more than 450 participants heard presentations on many fields. In his conclusion, almost everything can be done if the four dimensional space-time is fully exploited, i.e. if the strategy is based on staggered project planning. The most crucial input for the strategy is and remains of course the scientific case for each project, but other elements play also important roles:

- obviously there are not enough resources;
- many non-scientific (political, social, economical, etc.) factors influence the positions,

- the importance for different scientific cases is neither uniquely nor objectively defined, but reflects different scientific 'tastes'.

Nakada concludes by saying that difference is also strength – as nature shows – but that compromises, concessions, patience, and determination are needed to reach a strategy!

#### **4. ACCU**

The Swiss ACCU representative (M. Weber) shows the burning issues related to users as discussed in ACCU, offers help where needed, and invites colleagues to contact him in case they have a wish or request.

#### **5. ECFA**

The Swiss R-ECFA representative (Th. Gehrman) reports about the last years' activities of ECFA with several country visits, the submission of a report from the LHeC study group, and the work from the detector R&D panel. He points to the ongoing and future discussion about the role of the P-ECFA. The Chair thanks Th. Gehrman – who will step down from this function by the end of the year - for the services rendered over the past three years (applause).

#### **6. ApPEC/OECD Global Science Forum**

The Swiss ApPEC representative (M. Bourquin) reports about the ApPEC activities of the last year and the new organisation that is awaiting implementation. He points to the pending decision of the Round Table International (and more specifically by the SER) regarding the adhesion of Switzerland to ApPEC (as recommended by the CHIPP Board on 7 September) and concerning the nomination of the Swiss ApPEC representative. He concludes by briefly reporting from APIF (Astroparticle International Forum), where Switzerland has presented its Roadmap<sup>1</sup>, the Research Bill to Parliament (containing the Swiss funding for research), and the new FLARE funding instrument. He closes by mentioning that the EU might support further European roadmap projects like neutrino factories and gravitational waves in addition to the already supported projects CTA, KM3Net and LAGUNA.

#### **7. CHIPP Outreach**

The Chair of the CHIPP Outreach Group (H.-P. Beck) reports about plenty of activities, the most visible ones being the SER funded (58 kCHF) project 'Verflixtes Higgs' (supported by Vogel & Plass [see below]), where also a new webpage has been created [www.teilchenphysik.ch](http://www.teilchenphysik.ch), and the Agora SNF request 'Interactions' (200 kCHF) focusing on young people, social media, and dialogue. Two journalists (B. Vogel and Ch. Plass) are involved in the two projects. The social media specialist Plass presents an appetizer film (applause) and calls on the CHIPP members to provide short information for her news button [c.plass@gmail.com](mailto:c.plass@gmail.com). The ambitious goal is to publish one article per week. The information gathered will be shared with 'the world' on youtube, google-plus, twitter, and facebook. Plass and Vogel invite the CHIPP members to share their live as physicists and their thoughts with young people. Pohl regrets that these portals and articles are/will be available only in German, which makes the efforts completely useless for half of Switzerland. The Chair informs that efforts have been deployed to acquire funds (from SCNAT) allowing a translation into French.

#### **8. CHIPP Computing Board**

In his report, the Chair of the CHIPP Computing Board (Ch. Grab) informs about the physical move of the Swiss tier2 cluster, called Phoenix, which is located at CSCS, from Manno to Lugano. He sketches the difficulties of the whole pledging process, where a compromise has to be found between the wish list and affordability. In addition to these difficulties, the public procurement procedure has tightened over the last months, requiring now a full WTO tendering process instead of single-source procurement without competition, as was the rule in the past years. He informs about his initiative to discuss with the Board members how to match the experiments' needs with the available resources, which will include ~600 kCHF/year from FLARE. However, according to him, it is clear that the number of FTEs will imperatively follow the increase in size and complexity. Ereditato hints to possible simplification with the two-year requests, which will be possible from 2013 onwards.

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<sup>1</sup> [http://www.sbf.admin.ch/htm/dokumentation/publikationen/forschung/Roadmap\\_2012\\_de.pdf](http://www.sbf.admin.ch/htm/dokumentation/publikationen/forschung/Roadmap_2012_de.pdf)  
[http://www.sbf.admin.ch/htm/dokumentation/publikationen/forschung/Roadmap\\_2012\\_fr.pdf](http://www.sbf.admin.ch/htm/dokumentation/publikationen/forschung/Roadmap_2012_fr.pdf)

## **9. Elections**

The Chair presents the recommendation of the Board regarding the re-election of M. Weber as ACCU representative.

→ The Plenary re-elects M. Weber for a third term as ACCU representative (2013/2014) by acclamation. The Chair then presents the recommendation of the Board regarding the ECFA representatives. L. Rivkin (R-ECFA) and O. Steinkamp (P-ECFA) present themselves; The Chair briefly introduced T. Garvey (absent), standing for re-election.

→ The Plenary unanimously

- elects Lenny Rivkin for a first term (2013-2015) as R-ECFA representative;
- elects Olaf Steinkamp for a first term (2013-2015) as P-ECFA representative;
- re-elects Terence Garvey for a second term as P-ECFA representative (2013-2015).

The Chair congratulates all the four elected CHIPP members and wishes them an interesting task as new representative (applause). He is looking forward to a close collaboration and interaction.

## **10. Concluding remarks**

Concluding, the Chair thanks all the persons that have contributed to the interesting meeting and in particular the Administrator for the preparatory and organisational work (applause).

18 September 2012

written by: Jean-Pierre Ruder  
approved by: Klaus Kirch

**2012 CHIPP Annual Plenary Meeting – Programme**  
 Thursday 13 September 2012 – Friday 14 September 2012; Kartause Ittingen

## Thursday 13 September 2012

### Introduction - (13 September 09:30-10:10)

time	title	presenter
09:30	Coffee	
10:00	Welcome by the CHIPP Chair	KIRCH, K.
10:05	Administrative and organisational set-up	RUDER, J.-P.

### LHC-I – Higgs and direct searches - (13 September 10:10-12:05)

- Conveners: Schneider, O.

time	title	presenter
10:10	Theory overview - The Higgs Boson in Theory	ANASTASIOU, B.
10:40	Discussion	
10:50	ATLAS-I: ATLAS Status on SUSY and Exotics	HAUG, S
11:05	Discussion	
11:15	CMS-I: Higgs (and SUSY) results	DONEGA, M.
11:30	Discussion	
11:40	ATLAS-II: Higgs and SM results	BELL, W. H.
11:55	Discussion	

### LHC-I – Higgs and direct searches - (13 September 13:45-14:10)

- Conveners: Schneider, O.

time	title	presenter
13:45	CMS-II: SM and B physics results	MEIER, F.
14:00	Discussion	

### Neutrino physics - (13 September 14:10-15:40)

- Conveners: Straumann, U.

time	title	presenter
14:10	Neutrino Physics - Theory Overview	ANTUSCH, St.
14:40	Discussion	
14:50	EXO & GERDA	GORNEA, R.
15:05	Discussion	
15:15	Status of OPERA and T2K (+NA61)	EREDITATO, A.
15:30	Discussion	

### **Low energy precision physics - (13 September 16:25-18:20)**

- Conveners: Colangelo, G.

time	title	presenter
16:25	Theory overview - The precision frontier from the hierarchy standpoint	RATTAZZI, R.
16:55	Discussion	
17:05	Ultracold neutrons and neutron EDM	BISON, G.
17:20	Discussion	
17:30	Muon physics and rare decays	A. PAPA
17:45	Discussion	
17:55	Exotic atoms	P. CRIVELLI
18:10	Discussion	

### **CHIPP Prize and presentation - (13 September 18:20-18:55)**

- Conveners: Colangelo, Gilberto

time	title	presenter
18:20	CHIPP Prize award	COLANGELO, G.
18:25	CHIPP Prize presentation: QCD Corrections and Non-linear Mappings	F. HERZOG

## **Friday 14 September 2012**

### **Report from Committees and Elections - (14 September 08:15-10:10)**

- Conveners: Kirch, Klaus

time	title	presenter
08:30	CERN Council	STRAUMANN, U.
08:40	European Strategy Group	NAKADA, T.
08:50	ACCU	WEBER, M.
09:00	ECFA	GEHRMANN, T.
09:10	ApPEC/OECD Global Science Forum	BOURQUIN, M.
09:20	CHIPP Outreach	BECK, H.-P.
09:40	CHIPP Computing Board	GRAB, Ch
09:50	Elections ACCU and ECFA	KIRCH, K.

### **LHC-II: Indirect searches - (14 September 10:50-12:25)**

- Conveners: Dissertori, G.

time	title	presenter
10:50	Theory overview - Indirect Searches for New Physics	A. CRIVELLIN
11:20	Discussion	
11:30	Rare B Decays at LHCb	DE CIAN, M.
11:45	Discussion	
11:55	CP violation measurements at LHCb	G. COWAN
12:10	Discussion	

**Dark matter & astroparticle physics - (14 September 14:00-16:05)**

- Conveners: Ereditato, A.

time	title	presenter
14:00	IceCube and CTA - multi-messenger high energy astrophysics	MONTARULI, T.
14:15	Discussion	
14:25	The AMS Cosmic Ray Observatory on the International Space Station	POHL, M.
14:40	Discussion	
14:50	XENON100, XENON1T, DARWIN	KESSLER, G.
15:05	Discussion	
15:15	The ArDM experiment - Status Report	EPPRECHT, L.
15:30	Discussion	
15:40	Future neutrino oscillation experiments with a Swiss participation	DUFOUR, F.
15:55	Discussion	

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