

# Strategy Workshop on High-Energy Particle Physics in Switzerland

## SWHEPPS 2016

7-9 June 2016, Seminarhotel am Ägerisee



# Welcome!

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- Grüezi ['gryətsi]

- The three pillars of CHIPP
  - Particle physics (PP) at the High Energy and Intensity Frontier
  - Neutrino physics
  - Astroparticle physics (ApP) & frontier with cosmology
- Dynamic fields: key strategic decisions constantly ahead – continuous challenge
  - PP @ High Energy: main physics focus at HL-LHC post-LHC future (ILC, FCC ...)  
Interplay with High Intensity Experiments
  - PP Neutrinos: Next long baseline facilities
  - ApP :Next generation facilities
- Consensus expressed in series of roadmaps & whitepapers and « pillar » workshops
  - Also taking into account international strategies (European Strategy, US P5 Strategy, ApPEC)



**2004: initial roadmap**  
**2011: roadmap update**  
**2013: white paper on ground-based ApP strategy**  
**2015: white paper on neutrino strategy**  
**201x: Pillar 1 whitepaper**

# Aim of the Workshop

- Take stock at the present state of the field in pillar 1 (comprising physics at the high energy and intensity frontiers)
- Identify key elements influencing our CH strategy for pillar 1 research in the next 5-10-15 years, or – failing to identify those now – define milestones when identifying those elements should become clearer.
- Act as kick-off meeting to prepare a Pillar 1 white paper on future activities, ideally to be finalized by the end of 2016 or early 2017.
- We do NOT foresee to discuss resources needed or available at this stage (even though they will play an important role)

# Format of the Workshop

Final Programme 1/4 11. May 2016

	Day 1	Day 2	Day 3
07:30-9:00		Breakfast	Breakfast
09:00-10:30		<b>Flavor Physics</b>	<b>New Accelerators: Facilities</b>
10:30-11:00		Coffee	Coffee
11:00-12:30	<b>Registration</b>	<b>Low Energy Physics</b>	<b>New Accelerators: Detectors</b>
12:30-13:45	Buffet Lunch	Buffet Lunch	Buffet Lunch
14:00-15:30	<b>Higgs Physics</b>	<b>Standard Model</b>	<b>Discussion: New Accelerators</b>
15:30-16:00	Coffee	Coffee	
16:00-18:00	<b>LHC Searches and perspectives</b>	<b>Theory including connections to other fields</b>	<b>Summary (16-17h)</b>
18:00-19:30	<b>Discussion: Status Searches at High Energy Frontier</b>	<b>Discussion: Connection to other fields</b>	
20:00-22:00	Aperitif & Dinner	Dinner	

25+5min plenary talks: summarize status, raise questions.  
Discussion sessions 90min to 2hrs max.

Discussion sessions are lead by subset of convenors of the day - this is where a lot of the "work" (as in workshop) is done!

A special "thank you" for our external speakers enriching our CH internal discussion!

# How-To: Internet Access and Talks, Registration

- In seminar room and hotel rooms, wireless is available:
  - Account Login: 2375530658  
Password: 5637
- SWHEPPS Indico webpage (still being updated):
  - <https://indico.cern.ch/event/504502/>
- Scientific Secretaries: Marc Türlér, Mauro Donega
  - Contact them if you need help with upload of the talks
- PLEASE register as soon as possible - during coffee breaks
  - Please pay conference fee in cash (cash machines available)

# How-To: Lunch and Dinner

- Breakfast is available from 7:00h – 9:00 (10) h
  - At your leisure
- Buffet lunch is open from 12:30h – 14:00h
  - At your leisure
- Dinner is served at 20h
  - 3 course menu served together – please be on time
  - Please indicate your participation in dinner on the sheet
- Conference fee covers mineral water (a discretion)
  - Please pay any other beverages cash/credit-debit/on room
- Welcome Aperero tonight at 19:30h sponsored by ETH IPP
  - At Terrace of Wilerbar (lower floor, two left)



# How-To:Group Photo: Wednesday 13:45h

Location: Wiler Bar Terrace



- Scientific:
  - Marc Türler ([turler@physik.uzh.ch](mailto:turler@physik.uzh.ch), starting Wed)
  - Mauro Donega ([mauro.donega@cern.ch](mailto:mauro.donega@cern.ch))
  - Rainer Wallny ([rwallny@phys.ethz.ch](mailto:rwallny@phys.ethz.ch))
  
- Administration: ([swhepps2016@phys.ethz.ch](mailto:swhepps2016@phys.ethz.ch))
  - Gabriela Amstutz
  - Caroline Keufer-Platz
  
- General contact number: +41 75 411 88 29

# Welcome!

We are looking forward to a  
High energy high intensity workshop!



Swiss Academy of Sciences  
Akademie der Naturwissenschaften  
Accademia di scienze naturali  
Académie des sciences naturelles

# BACKUP

- Zugerstrasse 24 Raiffaissen
- 26 Zuger Kantonalbank
- 28 Post

# Session Convenors

- (1) Higgs + (2) SM:  
Florenca Canelli, Michele Weber
- (3) LHC searches and perspectives:  
Ben Kilminster, Tobias Golling
- (4) Flavor/Flavor BSM + (5) Low Energy  
Adrian Signer, Klaus Kirch, Olivier Schneider
- (6) Theory + BSM Connections to other fields:  
Gino Isidori, Ricardo Ratazzi, Thomas Gehrmann
- (7) Future Accelerators  
Lenny Riffkin
- (8) Future Detectors  
Roland Horisberger, Sergio Gonzales