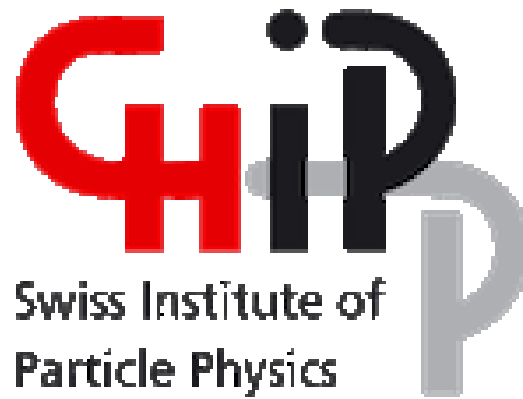


**SWICH April 2018**



# **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Registration

*Tuesday 3 April 2018 11:00 (1 hour)*

Contribution ID: 2

Type: **not specified**

## Intro / Goals

White Paper Pillar 1

**Presenters:** WEBER, Michele (Universitaet Bern (CH)); WALLNY, Rainer (Eidgenoessische Technische Hochschule Zuerich (ETHZ) (CH))

Contribution ID: 3

Type: **not specified**

## Higgs & Theory

**Presenters:** CANELLI, Florencia (Universitaet Zuerich (CH)); GEHRMANN, Thomas (Univ. Zurich)

Contribution ID: 4

Type: **not specified**

## Flavour & Theory

**Presenters:** ISIDORI, Gino (Universitaet Zuerich (CH)); SCHNEIDER, Olivier (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Contribution ID: 5

Type: **not specified**

## **BSM indirect searches & Theory**

Contribution ID: 6

Type: **not specified**

## DISCUSSION

Contribution ID: 8

Type: **not specified**

## **Neutrino Whitepaper + Neutrino**

**Presenters:** RUBBIA, Andre (Eidgenoessische Technische Hochschule Zuerich (ETHZ) (CH)); EREDITATO, Antonio (Universitaet Bern (CH))



Contribution ID: 9

Type: **not specified**

## **AstroP Whitepaper & Astroparticle**

**Presenter:** MONTARULI, Teresa

Contribution ID: 11

Type: **not specified**

## **DM / Cosmology + Theory**

**Presenters:** BAUDIS, Laura (University of Zurich); DURRER ZIMMERMANN, Ruth

Contribution ID: **12**

Type: **not specified**

## **DISCUSSION**

Contribution ID: 13

Type: **not specified**

## **Small scale - large impact**

**Presenter:** KIRCH, Klaus (PSI)

Contribution ID: 14

Type: **not specified**

## Computing needs

**Presenter:** Prof. GRAB, Christophorus (Eidgenoessische Technische Hochschule Zuerich (ETHZ) (CH))

Contribution ID: 15

Type: **not specified**

## **Future large infrastructures**

**Presenters:** BLONDEL, Alain (Universite de Geneve (CH)); NAKADA, Tatsuya (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Contribution ID: 16

Type: **not specified**

## **International roadmaps**

Contribution ID: 17

Type: **not specified**

## Summary Discussion and Tasks for the September workshop

*Friday 6 April 2018 13:15 (2 hours)*

**Presenters:** EREDITATO, Antonio (Universitaet Bern (CH)); WEBER, Michele (Universitaet Bern (CH)); SHAPOSHNIKOV, Mikhail (EPFL); MONTARULLI, Teresa (Universite de Geneve (CH))



Contribution ID: **18**

Type: **not specified**

## **BSM direct searches + Theory**

**Presenters:** RATAZZI, Riccardo (Ecole Polytechnique Federale de Lausanne (CH)); GOLLING, Tobias (Universite de Geneve (CH))

Contribution ID: **19**

Type: **not specified**

## **DISCUSSION**

Contribution ID: 20

Type: **not specified**

## **Neutrino theory + New endeavours (SHIP et al)**

**Presenters:** SHAPOSHNIKOV, Mikhail (EPFL); ANTUSCH, Stefan (University of Basel)

Contribution ID: **21**

Type: **not specified**

## **DISCUSSION**

Contribution ID: 22

Type: **not specified**

## **Detectors and Accelerators R&D**

**Presenters:** KRESLO, Igor (Universitaet Bern (CH)); RIVKIN, Lenny (Paul Scherrer Institut (CH))

Contribution ID: 23

Type: **not specified**

## DISCUSSION

Contribution ID: 24

Type: **not specified**

## **Higgs theory overview**

*Tuesday 3 April 2018 14:00 (35 minutes)*

**Presenter:** GRAZZINI, Massimiliano (Universitaet Zuerich (CH))

**Session Classification:** Higgs and Theory

Contribution ID: 25

Type: **not specified**

## View from SERI

*Tuesday 3 April 2018 13:15 (20 minutes)*

**Presenter:** MOOR, Bruno H. (Federal Department of Home Affairs FDHA)

**Session Classification:** Intro / Goal



Contribution ID: 26

Type: **not specified**

## **introduction**

*Tuesday 3 April 2018 13:00 (15 minutes)*

**Presenter:** WEBER, Michele (Universitaet Bern (CH))

**Session Classification:** Intro / Goal

Contribution ID: 27

Type: **not specified**

## Leading to the discussion

*Tuesday 3 April 2018 16:25 (20 minutes)*

**Presenter:** RATTAZZI, Riccardo (Ecole Polytechnique Federale de Lausanne (CH))

**Session Classification:** BSM direct searches + Theory

Contribution ID: 28

Type: **not specified**

## **BSM direct searches + Theory**

*Tuesday 3 April 2018 15:30 (35 minutes)*

**Presenter:** WEILER, Andreas (Technische Universität Muenchen (DE))

**Session Classification:** BSM direct searches + Theory

Contribution ID: 29

Type: **not specified**

## **Specific searches and unconventional signatures**

*Tuesday 3 April 2018 16:05 (20 minutes)*

**Presenter:** KILMINSTER, Ben (Universitaet Zuerich (CH))

**Session Classification:** BSM direct searches + Theory

Contribution ID: **30**

Type: **not specified**

## **Indirect NP search in EW processes**

*Wednesday 4 April 2018 08:30 (30 minutes)*

**Presenter:** WULZER, Andrea (CERN)

**Session Classification:** Flavour and BSM indirect & Theory

Contribution ID: 31

Type: **not specified**

## **LHCb and its upgrades: physics program and trigger challenges**

*Wednesday 4 April 2018 09:00 (25 minutes)*

**Presenter:** FITZPATRICK, Conor (EPFL - Ecole Polytechnique Federale Lausanne (CH))

**Session Classification:** Flavour and BSM indirect & Theory

Contribution ID: 32

Type: **not specified**

## Flavour physics beyond the SM: a theoretical perspective

*Wednesday 4 April 2018 10:00 (30 minutes)*

Indirect BSM with *b/arrow*s loops at LHCb + prospects upgrade 1 and 2

**Presenter:** NARDECCHIA, Marco (CERN)

**Session Classification:** Flavour and BSM indirect & Theory

Contribution ID: 33

Type: **not specified**

## **Indirect BSM searches in $b \rightarrow sll$ transitions at LHCb**

*Wednesday 4 April 2018 10:30 (20 minutes)*

**Presenter:** SERRA, Nicola (Universitaet Zuerich (CH))

**Session Classification:** Flavour and BSM indirect & Theory



Contribution ID: **34**

Type: **not specified**

## **The Belle II physics programme**

*Wednesday 4 April 2018 10:50 (25 minutes)*

Belle II physics programme + comparison with LHCb

**Presenter:** BOSTJAN, Golob (Ljubljana)

**Session Classification:** Flavour and BSM indirect & Theory

Contribution ID: 35

Type: **not specified**

## **Future searches through EW precision tests**

**Session Classification:** Flavour and BSM indirect & Theory

Contribution ID: **36**

Type: **not specified**

## **CERN (invited talk)**

*Wednesday 4 April 2018 17:00 (30 minutes)*

**Presenter:** ECKHARD , Elsen (CERN)

**Session Classification:** CERN (invited talk)

Contribution ID: 37

Type: **not specified**

## **Present status of neutrino oscillation experiments and plans**

*Wednesday 4 April 2018 13:15 (25 minutes)*

**Presenter:** WILKINSON, Callum (University of Bern)

**Session Classification:** Neutrino

Contribution ID: **38**

Type: **not specified**

## **Future LBL projects and neutrino observatories**

*Wednesday 4 April 2018 13:40 (25 minutes)*

**Presenter:** MOLINA BUENO, Laura (ETH Zurich (CH))

**Session Classification:** Neutrino

Contribution ID: 39

Type: **not specified**

## **Searching for Majorana neutrinos: current status and future plans in Switzerland**

*Wednesday 4 April 2018 14:05 (25 minutes)*

**Presenter:** HILLER, Roman (UZH)

**Session Classification:** Neutrino

Contribution ID: 40

Type: **not specified**

## Dark sectors

*Wednesday 4 April 2018 14:30 (25 minutes)*

theory introduction

**Presenter:** SHAPOSHNIKOV, Mikhail (EPFL)

**Session Classification:** Neutrino theory + new endeavours

Contribution ID: 41

Type: **not specified**

## **Dark sectors, high intensity and LHC experiments**

*Wednesday 4 April 2018 15:10 (25 minutes)*

**Presenter:** REDI, Federico Leo (EPFL - Ecole Polytechnique Federale Lausanne (CH))

**Session Classification:** Neutrino theory + new endeavours



Contribution ID: 42

Type: **not specified**

## **Right-handed neutrinos at the FCCs**

*Wednesday 4 April 2018 15:35 (25 minutes)*

**Presenter:** BLONDEL, Alain (Universite de Geneve (CH))

**Session Classification:** Neutrino theory + new endeavours

Contribution ID: 43

Type: **not specified**

## **Multi-Messenger**

*Thursday 5 April 2018 08:30 (25 minutes)*

Multi-Messenger presentation: CTA-MAGIC-FACT-IceCube-Cosmic rays for cosmic sources and DM

**Presenter:** MONTARULI, Teresa

**Session Classification:** AstoParticle with WP

Contribution ID: 44

Type: **not specified**

## **CTA implementation and operation**

*Thursday 5 April 2018 08:55 (25 minutes)*

**Presenter:** STRAUMANN, Ulrich (Universitaet Zuerich (CH))

**Session Classification:** AstoParticle with WP

Contribution ID: 45

Type: **not specified**

## Space program for CHIPP

*Thursday 5 April 2018 09:20 (25 minutes)*

**Presenter:** WU, Xin (Universite de Geneve (CH))

**Session Classification:** AstoParticle with WP

Contribution ID: 46

Type: **not specified**

## **Exciting experiments of cosmological large scale structure**

*Thursday 5 April 2018 10:25 (25 minutes)*

**Presenter:** REFREGIER, Alexandre

**Session Classification:** Dark Matter & Cosmology & theory

Contribution ID: 47

Type: **not specified**

## **The Swiss landscape in theoretical and observational cosmology (LSS, lensing CMB)**

*Thursday 5 April 2018 10:00 (25 minutes)*

**Presenter:** DURRER ZIMMERMANN, Ruth

**Session Classification:** Dark Matter & Cosmology & theory

Contribution ID: 48

Type: **not specified**

## **The Swiss landscape in direct dark matter detection**

*Thursday 5 April 2018 10:50 (25 minutes)*

**Presenter:** BAUDIS, Laura (University of Zurich)

**Session Classification:** Dark Matter & Cosmology & theory

Contribution ID: 49

Type: **not specified**

## **A landscape of low energy precision physics**

*Thursday 5 April 2018 14:00 (10 minutes)*

**Presenter:** SIGNER, Adrian (Paul Scherrer Institut)

**Session Classification:** Small scale - large impact



Contribution ID: 50

Type: **not specified**

## **Experiments on Charged Lepton Flavour Violation at PSI**

*Thursday 5 April 2018 14:10 (10 minutes)*

**Presenter:** KNECHT, Andreas

**Session Classification:** Small scale - large impact

Contribution ID: 51

Type: **not specified**

## The proton radius puzzle, HyperMu and Muse

*Thursday 5 April 2018 14:20 (10 minutes)*

**Presenter:** ANTOGNINI, Aldo (ETHZ)

**Session Classification:** Small scale - large impact

Contribution ID: 52

Type: **not specified**

## **Precision 1S-2S spectroscopy of Positronium and Muonium**

*Thursday 5 April 2018 14:30 (10 minutes)*

**Presenter:** CRIVELLI, Paolo (Eidgenoessische Technische Hochschule Zuerich (ETHZ) (CH))

**Session Classification:** Small scale - large impact

Contribution ID: 53

Type: **not specified**

## **Antimatter gravity and interferometry**

*Thursday 5 April 2018 14:40 (10 minutes)*

**Presenter:** PISTILLO, Ciro (Universitaet Bern (CH))

**Session Classification:** Small scale - large impact

Contribution ID: 54

Type: **not specified**

## **Searches for electric dipole moments of particles**

*Thursday 5 April 2018 14:50 (10 minutes)*

**Presenter:** SCHMIDT-WELLENBURG, Philipp

**Session Classification:** Small scale - large impact

Contribution ID: 55

Type: **not specified**

## **Accelerator R&D in Switzerland: an overview**

*Thursday 5 April 2018 15:30 (20 minutes)*

**Presenter:** RIVKIN, Lenny (Paul Scherrer Institut (CH))

**Session Classification:** Detectors and Accelerator R&D

Contribution ID: 56

Type: **not specified**

## High field magnets R&D

*Thursday 5 April 2018 15:50 (20 minutes)*

**Presenter:** AUCHMANN, Bernhard (CERN)

**Session Classification:** Detectors and Accelerator R&D

Contribution ID: 57

Type: **not specified**

## **Detector R&D review**

*Thursday 5 April 2018 16:10 (35 minutes)*

**Presenter:** KRESLO, Igor (Universitaet Bern (CH))

**Session Classification:** Detectors and Accelerator R&D



Contribution ID: 58

Type: **not specified**

## Computing in .. High and Low energy

*Friday 6 April 2018 08:45 (15 minutes)*

**Presenter:** GRAB, Christophorus (Eidgenoessische Technische Hochschule Zuerich (ETHZ) (CH))

**Session Classification:** Computing

Contribution ID: 59

Type: **not specified**

## Computing in .. Astroparticle

*Friday 6 April 2018 09:00 (15 minutes)*

**Presenter:** WALTER, Roland (University of Geneva)

**Session Classification:** Computing

Contribution ID: **60**

Type: **not specified**

## **Computing in .. Theory**

*Friday 6 April 2018 09:15 (15 minutes)*

**Presenter:** WENGER, Urs

**Session Classification:** Computing

Contribution ID: **61**

Type: **not specified**

## **Computing in .. Neutrino**

*Friday 6 April 2018 09:30 (15 minutes)*

**Presenter:** PISTILLO, Ciro (Universitaet Bern (CH))

**Session Classification:** Computing

Contribution ID: 62

Type: **not specified**

## **Summary non accelerator**

**Session Classification:** Future Infrastructures

Contribution ID: **63**

Type: **not specified**

## **Linear collider**

*Friday 6 April 2018 10:29 (24 minutes)*

**Presenter:** SCHULTE, Daniel (CERN)

**Session Classification:** Future Infrastructures

Contribution ID: **64**

Type: **not specified**

## **Circular colliders**

*Friday 6 April 2018 10:53 (24 minutes)*

**Presenter:** ZIMMERMANN, Frank (CERN)

**Session Classification:** Future Infrastructures

Contribution ID: 65

Type: **not specified**

## Summary non accelerator

*Friday 6 April 2018 10:05 (24 minutes)*

**Presenter:** BLONDEL, Alain (Universite de Geneve (CH))

**Session Classification:** Future Infrastructures



Contribution ID: **66**

Type: **not specified**

## Discussion

*Friday 6 April 2018 11:17 (43 minutes)*

**Presenter:** Prof. DISSERTORI, Guenther (ETH Zurich (CH))

**Session Classification:** Future Infrastructures

Contribution ID: 67

Type: **not specified**

## Indirect BSM searches with charged currents at LHCb

*Wednesday 4 April 2018 09:25 (20 minutes)*

**Presenter:** OWEN, Patrick Haworth (Universitaet Zuerich (CH))

**Session Classification:** Flavour and BSM indirect & Theory

Contribution ID: **68**

Type: **not specified**

## **Pillar 1 White Paper**

**Presenter:** WALLNY, Rainer (Eidgenössische Technische Hochschule Zuerich (ETHZ) (CH))

**Session Classification:** Intro / Goal

Contribution ID: **69**

Type: **not specified**

## **Pillar 1 White Paper**

*Tuesday 3 April 2018 13:40 (20 minutes)*

**Presenter:** WALLNY, Rainer (Eidgenoessische Technische Hochschule Zuerich (ETHZ) (CH))

Contribution ID: 70

Type: **not specified**

## Higgs experimental summary

*Tuesday 3 April 2018 14:35 (35 minutes)*

**Presenter:** CAMINADA, Lea Michaela (Paul Scherrer Institut (CH))

**Session Classification:** Higgs and Theory

Contribution ID: 71

Type: **not specified**

## PHOTO

*Thursday 5 April 2018 12:00 (2 minutes)*

Contribution ID: 72

Type: **not specified**

## **Introduction**

*Friday 6 April 2018 08:40 (5 minutes)*

**Session Classification:** Computing