

CHIPP Strategy Update Workshop 2025

Report of Contributions

Contribution ID: 6

Type: **not specified**

CHIPP and overview of the current swiss collider physics landscape

Tuesday 4 February 2025 09:55 (25 minutes)

CHIPP is organized in three main pillars. This talk describes in detail pillar 1.

“Pillar 1 tackles the exploration of interactions between fundamental particles and the search for physics beyond the SM, using accelerators at the high-energy frontier (such as the LHC at CERN), as well as high-intensity, low-energy accelerators (such as the facilities available at PSI) at the precision/intensity frontier.” -> Taken from the CHIPP Roadmap

Presenter: KILMINSTER, Ben (University of Zurich (CH))

Session Classification: CHIPP structure and drivers for the future

Track Classification: Early-career discussion on the Swiss input

Contribution ID: 7

Type: **not specified**

Overview of Swiss neutrino/astroparticle physics landscape

Tuesday 4 February 2025 10:20 (20 minutes)

Pillar 2 is dedicated to the exploration of the neutrino sector, with emphasis on the investigation of transitions between different neutrino types and, in particular, the consequences of non-zero neutrino masses.

Pillar 3 focuses on the exploration of fundamental questions at the interface between observational cosmology and particle physics, such as the search for dark matter or multi-messenger astroparticle physics.

Presenter: Mr AMARINEI, Robert Mihai (Universite de Geneve)

Session Classification: CHIPP structure and drivers for the future

Track Classification: Early-career discussion on the Swiss input

Contribution ID: 8

Type: **not specified**

Where is the future taking us?

Tuesday 4 February 2025 11:30 (30 minutes)

A theoretical perspective of the current (and future) scene of particle physics.

Presenter: PESUT, Marko (University of Zürich)

Session Classification: CHIPP structure and drivers for the future

Track Classification: Early-career discussion on the Swiss input

Contribution ID: 9

Type: **not specified**

Future collider options and accelerator challenges

Tuesday 4 February 2025 12:00 (20 minutes)

A session focused on an overview of future collider proposals.

Presenter: KONTAXAKIS, Pantelis (Universite de Geneve (CH))

Session Classification: Colliders in the focus: What are the main challenges?

Track Classification: Early-career discussion on the Swiss input

Contribution ID: **10**

Type: **not specified**

Experimental challenges around future colliders

Tuesday 4 February 2025 14:00 (20 minutes)

Presenter: ILG, Armin (University of Zurich)

Session Classification: Colliders in the focus: What are the main challenges?

Track Classification: Early-career discussion on the Swiss input

Contribution ID: **11**

Type: **not specified**

Theoretical challenges around future colliders

Tuesday 4 February 2025 12:20 (20 minutes)

Presenter: AEBISCHER, Jason (CERN)

Session Classification: Colliders in the focus: What are the main challenges?

Track Classification: Early-career discussion on the Swiss input

Contribution ID: 12

Type: **not specified**

Current involvement and future interest in future collider R&D in Switzerland

Tuesday 4 February 2025 14:20 (25 minutes)

Presenter: MARCHEVSKI, Radoslav (École Polytechnique Fédérale de Lausanne (EPFL))

Session Classification: Particle Physics Roles in the Society

Track Classification: Early-career discussion on the Swiss input

Contribution ID: 14

Type: **not specified**

Impact of particle physics on society and sustainability

Tuesday 4 February 2025 14:45 (25 minutes)

Presenter: Dr BRUANT GULEJOVA, Barbora (Universitaet Bern (CH))

Session Classification: Particle Physics Roles in the Society

Track Classification: Early-career discussion on the Swiss input

Contribution ID: 15

Type: **not specified**

View from the Swiss Government

Presenter: STOCKER, Francesca (Universitaet Bern (CH))

Session Classification: Particle Physics Roles in the Society

Track Classification: Early-career discussion on the Swiss input

Contribution ID: **16**

Type: **not specified**

Panel Discussion

Tuesday 4 February 2025 16:00 (1 hour)

Moderators: Lorenzo Giannessi, Vedantha Srinivas Kasturi

Presenters: GIANNESSI, Lorenzo (Universite de Geneve (CH)); KASTURI, Vedantha Srinivas (Universite de Geneve (CH))

Track Classification: Early-career discussion on the Swiss input

Contribution ID: **19**

Type: **not specified**

Welcome to Early-Career Discussion on the Swiss Input

Tuesday 4 February 2025 09:45 (1 minute)

Presenter: ILG, Armin (University of Zurich)

Session Classification: CHIPP structure and drivers for the future

Track Classification: Early-career discussion on the Swiss input

Contribution ID: 20

Type: **not specified**

Introduction to the European Particle Physics Strategy Update

Tuesday 4 February 2025 09:46 (9 minutes)

Presenter: ILG, Armin (University of Zurich)

Session Classification: CHIPP structure and drivers for the future

Track Classification: Early-career discussion on the Swiss input

Contribution ID: 21

Type: **not specified**

Welcome to CHIPP Strategy Update Workshop 2025

Wednesday 5 February 2025 10:00 (15 minutes)

Presenter: KILMINSTER, Ben (University of Zurich (CH))

Session Classification: CHIPP Strategy Update Workshop

Track Classification: CHIPP Strategy Update Workshop 2025

Contribution ID: 24

Type: **not specified**

Review on CERN flagship collider options and considerations

Wednesday 5 February 2025 10:15 (45 minutes)

Presenters: CANELLI, Florencia (University of Zurich (CH)); RIVKIN, Lenny (Paul Scherrer Institute (CH))

Session Classification: CHIPP Strategy Update Workshop

Contribution ID: 25

Type: **not specified**

Discussion on preferred options, backup options, what ifs

Wednesday 5 February 2025 11:00 (1 hour)

Presenters: ISIDORI, Gino (University of Zurich (CH)); ISIDORI, Gino (University of Zurich (CH))

Session Classification: CHIPP Strategy Update Workshop

Contribution ID: 26

Type: **not specified**

Additional discussion if necessary

Wednesday 5 February 2025 13:00 (30 minutes)

Presenters: ISIDORI, Gino (University of Zurich (CH)); ISIDORI, Gino (University of Zurich (CH))

Session Classification: CHIPP Strategy Update Workshop

Contribution ID: 27

Type: **not specified**

Review of roadmap

Wednesday 5 February 2025 13:30 (10 minutes)

Presenter: CRIVELLI, Paolo (ETH Zurich (CH))

Session Classification: Beyond flagship at CERN

Contribution ID: **28**

Type: **not specified**

Physics Beyond Colliders at CERN

Wednesday 5 February 2025 13:40 (15 minutes)

Presenter: SCHNELL, Gunar

Session Classification: Beyond flagship at CERN

Contribution ID: 29

Type: **not specified**

Neutrino platform & neutrinos at CERN/Europe

Wednesday 5 February 2025 13:55 (15 minutes)

Presenters: DE ROECK, Albert (CERN); DE ROECK, Albert (CERN)

Session Classification: Beyond flagship at CERN

Contribution ID: **30**

Type: **not specified**

PSI vision

Wednesday 5 February 2025 14:10 (15 minutes)

Presenter: KIRCH, Klaus

Session Classification: Beyond flagship at CERN

Contribution ID: **31**

Type: **not specified**

Astroparticle physics

Wednesday 5 February 2025 14:25 (15 minutes)

Presenter: SCHRAMM, Steven (Universite de Geneve (CH))

Session Classification: Beyond flagship at CERN

Contribution ID: **32**

Type: **not specified**

Discussion

Wednesday 5 February 2025 14:40 (45 minutes)

Session Classification: Beyond flagship at CERN

Contribution ID: 33

Type: **not specified**

Summary of session before lunch & discussion

Wednesday 5 February 2025 16:00 (1 hour)

Presenter: GOLLING, Tobias (Universite de Geneve (CH))

Session Classification: CHIPP Strategy Update Workshop

Contribution ID: **34**

Type: **not specified**

Next steps

Wednesday 5 February 2025 17:00 (1 hour)

Presenter: KILMINSTER, Ben (University of Zurich (CH))

Contribution ID: 35

Type: **not specified**

View from the Swiss Government

Tuesday 4 February 2025 10:40 (20 minutes)

Presenter: STOCKER, Francesca (SERI)

Session Classification: CHIPP structure and drivers for the future

Contribution ID: **36**

Type: **not specified**

PHOTO

Wednesday 5 February 2025 15:35 (1 minute)

Session Classification: Coffee Break

Contribution ID: 37

Type: **not specified**

PHOTO

Wednesday 5 February 2025 15:30 (5 minutes)