

Welcome and Introduction

CHIPP/CHART Workshop on Sustainability in Particle Physics and CHIPP 2023 plenary

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University of Zürich

14.06.2023

for the CHIPP ECR Organisers: Robert-Mihai Amarinei (UniGe), Lorenzo Giannessi (UniGe),
A. I (UZH), Luca Sabato (EPFL), Jesse Zhang (ETHZ)
and for CHIPP: Angela Benelli, Ben Kilminster (UZH)
and CHART: Lenny Rivkin (EPFL, PSI), Mike Seidel (EPFL, PSI)

Welcome



Campus Sursee

Previous workshops

- Yearly CHIPP Plenary, alternating stand-alone and at SPS meeting
- 2021: [stand-alone meeting at Seaside Hotel in Spiez](#)
 - 100 participants
 - Dedicated early-career researcher (ECR) sessions
- CHIPP ECR Liaisons (CHIPP-ECR-Liaisons@cern.ch): Robert-Mihai Amarinei, A.I,
- CHIPP ECR supporters (CHIPP-ECR-supporters@cern.ch)
- 2022: [CHIPP Plenary at SPS in Fribourg](#), with early-career researcher (ECR) session



CHIPP Plenary 2021 in Spiez

This year: Addressing both CHIPP and CHART, one day solely on **sustainability**, with ECR (and plenary) poster sessions and flash talks

Context of this workshop

- Motivated by the [International Year of Basic Sciences for Sustainable Development 2022/2023](#)
- Idea to organise a workshop on sustainability in particle physics research
- Ideal to have linked to CHIPP Plenary 2023, jointly with CHART (Swiss Accelerator Research and Technology)
- [Proposal to SCNAT](#) by Robert-Mihai Amarinei (UniGe), Lorenzo Giannessi (UniGe), A.I (UZH), Luca Sabato (EPFL), Jesse Zhang (ETHZ), with the help of Angela and Michele
- Implementing feedback from CHIPP Plenary in 2021 (Spiez): Less flash talks, keep (young) poster session, more time to socialize and explore site



Formular A) Tagungen/Kurse 2023

Plattform: MAP
Organisationseinheit: CHIPP

1. Tagungstitel - **bitte in Excel-Liste übertragen:** CHIPP/CHART Workshop on Sustainability in Particle Physics
Datum: 14-16. Juni 2023
Ort: Campus Sursée, Sursée, Schweiz
2. Hauptthema: Sustainability/Nachhaltigkeit
3. Nebenthemen: Teilchenphysik, Beschleunigerphysik
4. Wissenschaftliche Bedeutung des Anlasses: Der Anlass ist Teil des CHIPP Annual meeting 2023 und wird dieses um einen Tag verlängern (drei statt zwei Tage)
Zielpublikum: Masterstudenten, Doktoranden, Postdocs, permanente Wissenschaftler und Vertreter der Industrie tätig in der Teilchenphysik oder Beschleunigerphysik
5. Art der Veranstaltung (Workshop, Symposium, etc.): Symposium
Anzahl Teilnehmer (geschätzt bzw. erwartet): 70
 öffentlicher Anlass
 auf Einladung
6. Veranstalter:
Name, Vorname: Jlg_Armin
Titel: Dr.
Institut/Firma: Physik-Institut, Universität Zürich
Adresse: Wisslab/Spiezstrasse 130
PLZ, Ort: 8057 Zürich
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E-Mail: armin.jlg@physik.uzh.ch
7. Mit-Organisatoren: Robert-Mihai Amarinei (Université de Genève), Jesse Zhang (ETHZ), Lorenzo Giannessi (Université de Genève), Luca Sabato (EPFL)

Workshop structure: Wednesday

Focusing fully on sustainability in particle physics research

Wed 14/06 | Thu 15/06 | Fri 16/06 | All days

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10:00	REGISTRATION	10:00 - 10:30
	Introduction to Sustainability: Introduction and goals of the workshop	10:30 - 10:35
	Introduction to Sustainability: Introductory talk about Sustainability	Michael Ditmar 10:40 - 11:30
11:00	Sustainability in particle physics and industry: Sustainability in particle physics research	Véronique Boivent 11:15 - 11:45
	Sustainability in particle physics and industry: Sustainability in accelerator physics research	Mike Seidel 11:50 - 12:20
12:00	Sustainability in particle physics and industry: Short talk: HTS FCC-ee energy efficient beam optics	Cristóbal García Jaimez 12:25 - 12:35
13:00	LUNCH	12:40 - 14:00

14:00	Sustainability in particle physics and industry: Role of science for a sustainable society	Barbara Bruant Gulejova 14:00 - 14:30
	Sustainability in particle physics and industry: Start-up: Transmutex	Dr Marco Busch, Massimo Barbagallo 14:35 - 14:45
15:00	Sustainability in particle physics and industry: Sustainability in industry	Dr Denry Svecharenko 14:50 - 15:20
	Sustainability in particle physics and industry: CIPEA - CERN Innovation Programme on Environmental Applications	Enrico Chirotti
	Coffee break	15:40 - 16:30
16:00	Introduction to Sustainability: Sustainability efforts in space research	Adrien Saadi 16:15 - 16:45
	Discussion: Panel discussion with speakers	Adrien Saadi, Barbara Bruant Gulejova, Denry Svecharenko, Michael Ditmar, Mike Seidel, Veronique Boivent
17:00		16:50 - 17:45
	CHIPP Plenary: CHIPP Prize 2023	17:50 - 18:35
18:00		
	DINNER	18:45 - 19:45
19:00		
	Discussion: Bar discussion with the panelists	Adrien Saadi
20:00		

Panel discussion with speakers. Submit questions/discussion points already now!



Or use [this link](#)

Workshop structure: Thursday

Future collider and CHIPP sessions, excursion related to sustainability, ECR poster sessions

Wed 14/06 Thu 15/06 Fri 16/06 All days

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09:00	Future colliders: Overview on future collider options	Daniel Schulte 09:00 - 09:15
	Future colliders: Physics motivation for future colliders	Rebecca Gonzalez Suarez 09:20 - 09:45
10:00	Future colliders: Accelerator R&D for future colliders	Dr Tatiana Pieloni 09:50 - 10:15
	Future colliders: The CHEP proposal on experimental and theoretical foundations for FCC	Ben Kilminster 10:20 - 10:30
	Coffee Break	10:30 - 11:00
11:00	CHIPP: CMS/ATLAS physics highlights	Florencia Canelli 11:00 - 11:20
	CHIPP: Low-energy physics at PS/CERN	Anna Soper 11:20 - 11:40
	CHIPP: Physics with forward and fixed target experiments at CERN	Anna Styris 11:40 - 12:00
12:00	CHIPP: Neutrinos	Davide Spillatennis 12:00 - 12:25
	CHIPP: Theory: The Higgs boson and the top quark: precision theory for the LHC and beyond.	Maksimilian Gaiotto 12:25 - 12:50
13:00	LUNCH	12:55 - 13:55

14:00	Excursion: Walk to "Haus des Holzes"	14:00 - 14:30
	Excursion: Presentation (English)	14:30 - 15:30
15:00	Excursion: Guided tour through "Haus des Holzes" (German)	15:30 - 16:30
	Excursion: Guided tour through "Haus des Holzes" (English)	15:30 - 16:30
16:00	Excursion: Walk back to Campus Sursee	16:30 - 17:00
17:00	CHIPP: Board	17:00 - 18:45
	ECR: ECR poster session	17:00 - 18:45
18:00	DINNER	18:45 - 19:45
19:00		
20:00	CHIPP/CHART: Poster session	



Haus des Holzes

Excursion: How to get to *Haus des Holzes*

Walk: Leave here at 13:50!

Public transport to get there

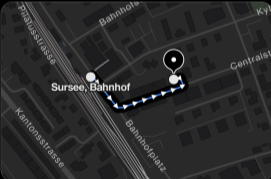
Public transport to get back

Oberkirch LU, CAMPUS Sursee →
Sursee, Bahnhof

13:59 ● Oberkirch LU, CAMPUS Sursee
B 86
Richtung Sursee, Spital

14:05 ● Sursee, Bahnhof Kante C

5' 🚶 Fussweg: 241 m



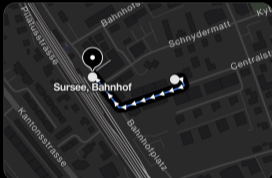
6210 Sursee, Centralstrasse 34

The screenshot shows a public transport route from Oberkirch LU, CAMPUS Sursee to Sursee, Bahnhof. The departure time is 13:59 on bus line B 86, heading towards Sursee, Spital. The arrival time at the bus stop is 14:05. A 5-minute walk (241m) is indicated from the bus stop to the destination. The map shows the route from the bus stop to the destination near Sursee, Bahnhof.

Sursee, Bahnhof →
Oberkirch LU, CAMPUS Sursee

6210 Sursee, Centralstrasse 34

5' 🚶 Fussweg: 241 m



16:52 ● Sursee, Bahnhof Kante A
B 86
Richtung Oberkirch LU, CAMPUS Sursee

16:58 ● Oberkirch LU, CAMPUS Sursee

The screenshot shows a public transport route from Sursee, Bahnhof to Oberkirch LU, CAMPUS Sursee. The departure time from the bus stop is 16:52 on bus line B 86, heading towards Oberkirch LU, CAMPUS Sursee. The arrival time at the destination is 16:58. A 5-minute walk (241m) is indicated from the destination to the bus stop. The map shows the route from the destination to the bus stop near Sursee, Bahnhof.

Workshop structure: Friday

CHIPP Plenary, poster prize and ECR flash talks

Wed 14/06 Thu 15/06 **Fri 18/06** All days

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Session legend

CHIPP ECR

09:00	CHIPP: PLENARY	
		09:00 - 10:30
	Awarding of Poster prize	10:30 - 10:45
11:00	Outer Barrel services chain characterization for the ATLAS ITk Pixel Detector	Saba Mobius 10:50 - 11:05
	Measurement of the tau g-2 in ultraperipheral PbPb collisions at the CMS experiment	Anash Zubairi 11:05 - 11:20
	Searching for Low-Mass Resonances Decaying into W Bosons	Giuglielmo Colobetti 11:20 - 11:35
	Asymmetric Di-Higgs Signals of the N2HDM	Dr Sunil Banik 11:35 - 11:50
12:00	The NA62 experiment	Alina Klemencovic 11:50 - 12:05
	Search for the muon electric dipole moment using the frozen-spin technique	Dr Philipp Schmid-Wendler 12:05 - 12:20
	SoLAR	Saba Parsa 12:20 - 12:35
13:00	LUNCH	



City of Sursee



Sempachersee (CC BY-SA 3.0)

Could use the afternoon to go to the lake and enjoy the nice weather!

If you are interested in Swiss apple juice, there is also the [Ramseier Erlebniswelt](#) to visit ;-)

Enjoy the workshop!



Campus Sursee