





Searches for new Physics at the technological Quantum Frontier -Workshop at ETHZ - 20-21.01.2022 - Welcome

Daniel Kienzler and Paolo Crivelli, ETH Zurich





#### Outline

Scope of the workshop, the program and beyond it

Some organisational information



## Scope of the workshop

 Bring together different fields: particle physics, atomic and molecular physics, and quantum technologies hoping to foster new research projects and collaborations across Switzerland to advance in the search for new physics beyond the Standard Model at low energy/quantum technology frontier.

#### Output:

- write a summary document of the workshop to which you are all invited to contribute.
- Explore the possibility to create a National Center of Competence in Research (NCCR) in the future.



#### Program

- Topics: heterogeneous program from theory to experiment and technological advances
- 3 external speakers and more than 80 participants from Swiss Institutions/ Universities: Geneva, EPFL, Neuchatel, METAS, Bern, Basel, PSI, ETHZ
- Today: Session 1 (9:00-10:30), Session 2 (11:00-12:30), Lunch in Bellavista (12:30-14:00), Session 3 (14:00-15:30), Session 4 (16:00-17:30), Apero in Alumni lounge (17:30-19:00)
- **Tomorrow**: Session 1 (9:00-10:30), Session 2 (11:00-12:30), Lunch in Bellavista (12:30-14:00), Session 3 (14:00-15:30), Session 4 (16:00-17:30)



# **External speakers**

 Review talks some of the interesting theory that can be tested at low energy beyond the standard model



Prof. Yonit Hochberg (Hebrew University of Jerusalem) Today @ 9:45



**Prof. Yevgeny Stadnik** (Sidney U.), Today @ 9:00

**Prof. Joerg Jaecke**l (Heidelberg U.) Tomorrow @ 14:00



#### Conference in Monte Verita' 2023

- The scientific board of the Congressi Stefano Franscini approved our follow up conference: "Searching for New Physics Beyond the Standard Model at the Quantum Technology Frontier", Sunday 02.07.2023 to Friday 07.07.2023.
- Expanded program with world leading international speakers

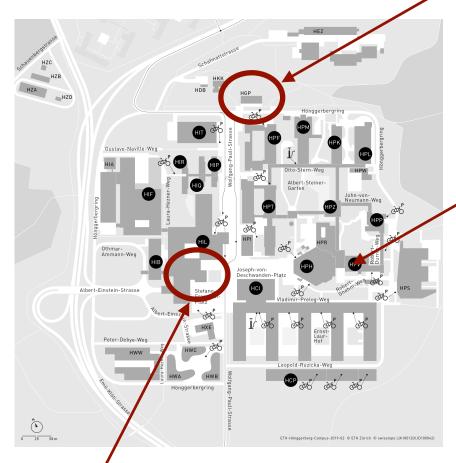


Please book the dates!



## Organizational

**Today and tomorrow: lunch** at the restaurant Bellavista 12:30-14:00 (pls have your COVID certificated ID ready)



Lecture hall HPV G5

Tonight apero at Alumni lounge 17:30 -19:00





# Acknowledgments



Thank you all for participating to this workshop!

A special thank you to Jonathan Home for encouraging us to organise this workshop!

A big thank also to Klaus Kirch, Aldo Antognini Anna Soter for their support!

Thank you as well to Gianni Blatter and Klaus Ensslin for sharing the QSIT application to the CSF.