

General Assembly Meeting of the Physik-Institut

1. New Personnel
2. Congratulations
3. Decision-making structure of the institute
4. Strategic planning of the institute
5. Buildings
6. Energy & Helium Shortage
7. Outreach
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New Personnel:

Kaori Tanaka, University of Saskatchewan
hosted jointly by the groups Chang and Neupert
groups

research focus: topological superconductivity,
condensed matter theory, numerical and parallel
computing



Joaquim Matias, Autonomous University of Barcelona
hosted by the group Serra

Research focus: Flavour structure of
the fundamental theory lying beyond
the Standard Model



Personnel: Anna Troller - Maternity leave

Anna is in maternity leave: January – summer '23

Replacements:

Ewa Bolli

Student Administration (BSc & MSc Degrees)
Semester planning
Rooms (EZ, SAP, internal)



Parisa Rezaei Mianroodi

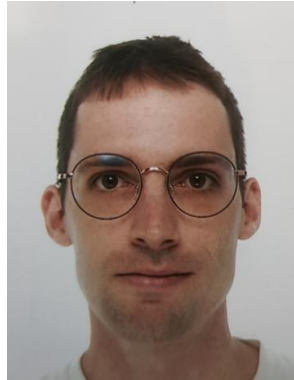
Exam administration (grade sheets, repetition exams)
Student questions
Seminars
Website,
Room bookings



New members, group Canelli, Kilminster & Baudis

Group Canelli

Fabian Stäger, PhD



Group Kilminster

Eslam Shokr, PhD



Group Baudis

Mariana Rajado Nunes da Silva, PhD

Marta Babicz, Postdoc



New members, group Gehrman

Robin Marzucca, Postdoc

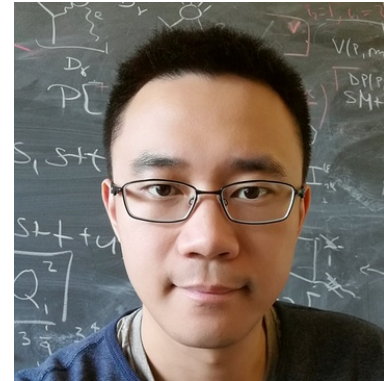
Leonardo Bonino, PhD

Xuan Chen, Senior Scientist

Kay Schönwald, Postdoc

Gaia Fontana, PhD

Weijie Feng, PhD



New members, groups Serra & Isidori

Group Serra

Daniel Craik, Ambizione

Pasquale Andreola, PhD

Guillermo Hijano, Assistant

Aleksandr Terentev, vis. PhD



Group Isidori

Zachary Polonsky, Postdoc

Noemi Fabri, PhD

Ariana Tinari, PhD



New members, group Chang & Natterer

Group Chang

Kevin Kramer, Postdoc

Jens Oppliger, PhD

Giordano Galati, Technician



Group Natterer

Carolina de Almeida Marques, Postdoc



New members, groups Crivellin, Stoffer, Brivio & Grazzini

Group Crivellin

Guglielmo Coloretti, PhD



Group Brivio

Mohammad Alminawi, PhD



Group Stoffer

Oscar Lara Corsas, PhD



Group Grazzini

**Daniel Baranowsky,
Postdoc**



New members, group Neupert and Electronics Workshop

Group Neupert

Bernhard Lüscher, PhD



Electronics Workshop

Diego Loosli, apprentice

Antonio Tejada, apprentice



Congratulations!

- **Yuta Takahashi**

CMS Young Researcher Prize '22 for "For his crucial and sustained contributions to the study of the lepton flavor anomalies observed in B decays ..."



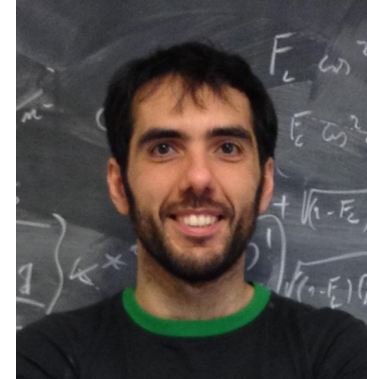
- **Sevda Esen**

LHCb early career award '22 for "For her outstanding contribution to ensure the persistence of the data produced by the LHCb trigger"



Congratulations!

- **Ben Schuler**
2023 Kazuhiko Kinosita Award in Single-Molecule Biophysics
- **Nico Serra**: SNF Advanced Grant
- **Dario de Simone**: LHCP poster award for his poster on [SND@LHC](#)
- **Karin von Arx**: poster award for *The fate of charge order in overdoped La-based cuprates* at the Materials and Mechanisms of Superconductivity conference



Poster Prize!

- Yumeng Xu et al.
A long journey of Graviational Waves
- Patrick Lenggenhager and Tomáš Bzdušek
New Paradigms for Topological Matter
- Marko Pesut & Sandro Mächler
All Quiet on the High Energy Front?



Best master theses!

- **Dectris prize** for the best experimental thesis

Jens Oppliger

on a novel measurement protocol for STM-QPI studies
and application of machine learning for XRD data
de-noising

- **Soluyanov prize** for the best theoretical thesis

David Urwyler

on hyperbolic topological insulators.



Decision making structure of the institute

Institute regulations of 25.11.2022 (in German):

https://www.physik.uzh.ch/dam/jcr:7ef2a9fb-e0f1-4869-8702-8b62f0922fb3/Institutsordnung_PhysikInstitut2022.pdf

- Institute directorate: Thomas Gehrman (director), Laura Baudis (co-director)
Katharina Müller (managing director)
responsible for daily operation of institute supported by administrative personnel
- Professors' meeting: all independent group leaders, meets monthly
- Institute assembly (professors and representatives of the bodies)
two meetings a year + on demand
- Management board: all tenured professors, meet on demand
- Long-term professorial planning: EFP (Entwicklungs- und Finanzplan) process
Institute annually proposes rolling five-year strategy for future professorships

Decision making structure of the institute

Representatives of the corporate bodies:

- **ATP** (administrative and technical personnel)
Achim Vollhardt, Paul Käser
- **WNW** (scientific personnel: PhDs and postdocs)
Benjamin Stefanek (Postdoc), Dario de Simone (PhD)
- **FFL** (scientific personnel: senior scientist and lecturers)
Marc Fischer, Michelle Galloway
- **Students:**
Lisa Büchi, Thamayanth Kanagalinga

Strategic planning of the institute: professorships

- **Experimental astro-particle physics**

Multimessenger astronomy, gravitational waves, LISA experiment
symposium with 6 candidates in June

- **Experimental condensed matter physics**

Quantum matter by design: symposium with 6 candidates end of November

- Input to the 2023 EFP process: four requests for professorships

[MS1] muon spin rotation, jointly with PSI

[MS2] experimental quantum matter by-design 2

[MS3] Theoretical condensed matter physics

[MS4] Astroparticle physics with focus on particle physics

Building 56

Building 56 will be renovated:

- installation of clean room for CMS detector assembly
- Labs for smaller scale experiments (high-field magnets, vibration-free tables)

Schedule

Empty building in February

Start renovation: spring 2023

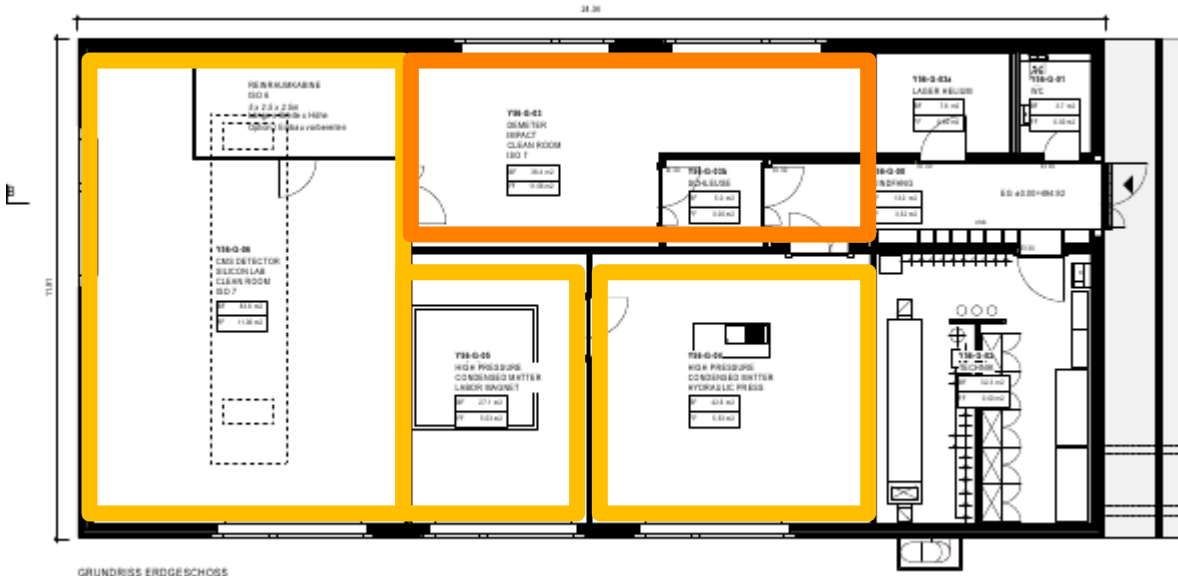
Phase 1 finished: end of 2023

Start Phase 2: 2026

Phase 2 finished: 2027



Building 56



Phase 1:
clean room for CMS detector
assembly
Labs for smaller scale experiments
(high-field magnets, vibration-free tables)

Phase 2:
clean room for IMPACT

Space on Irchel campus remains very tight, no new space before 2030
buildings 32 and 34 will be converted as temporary space for high-schools

Energy shortage

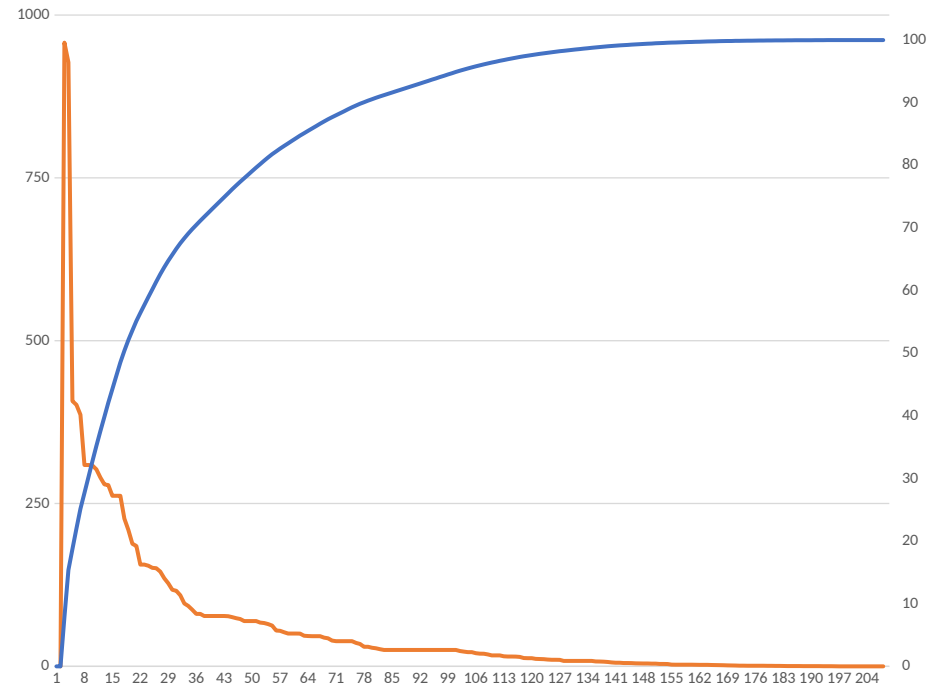
UZH is preparing for a possible energy shortage in the coming months

- Saving electricity and gas, to help to avoid drastic consequences such as grid shutdowns
- Preparations to avoid risks to humans and animals as well as major material and immaterial damage in the event of grid shutdowns

Survey of energy consumption at our institute
by Achim: total 12.3 MWh/ week

Prepare scenario for 10%, 20%, 30% cut

Worst case: lockdown as in 2020



Energy shortage

UZH: immediate measures

- Exterior and interior lighting has been reduced
- Night work outside of regular work schedules (8:00pm and 6:00am) is prohibited without permission
- The use of electric heaters to increase room temperature is prohibited
- Avoid keeping devices on stand-by
- Use electronic equipment when necessary and as energy-efficiently as possible
- Switch off lights when leaving a room
- Ventilate rooms in an energy-efficient manner

For more information <https://www.uzh.ch/cmsssl/en/about/specialmeasures/energy.html>

If you have ideas and suggestions on how to save energy at our institute please contact Achim or Katharina

Helium shortage

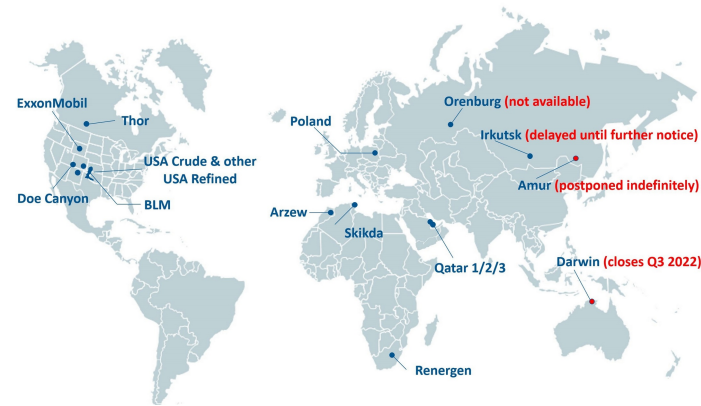
Strong and increasing global demand for Helium → less Helium available on global market

Limited number of suppliers worldwide: for Europe Poland and Algeria

Measures as of October 24:

- Maximum delivery volume 50% of average of last 45 months
- Rejection of dewars that are no longer at liquid helium temperature
- No deliveries if equipment is not connected to helium recovery system

Priorities discussed among groups Chang, Greber, Schilling and Natterer
3/5 experiments running



Notes:

- 75%-80% of the global industry's Helium supply comes from only 2-3 locations
- BLM: some product available for not before September
- Qatar: reliable production, but product gets fully shipped to Asia
- Poland: Reliable production but small volumes (1container/month)
- Amur: No product expected for the foreseeable future

Air travel (reminder)

- UZH sustainable-development goals: climate neutrality by the year 2030
largest single source of CO₂: business-related air travel
- objective for 2022: **reduce to 60% of 2019 status, then further -3% annually**
2022/23 data gathering, reduce air travel where possible
 - detailed central monitoring of air travels (**hand in boarding pass!**)
 - all travels that are paid for to at least 50% through UZH are counted including third-party funds and paid visitors
- MNF guidelines
 - no business class
 - use the train for all destinations reachable within 6 hours
- responsibility of implementation: individual research group leaders

Outreach

- Send input for social media, website and screen to outreach@physik.uzh.ch
- New exhibition on the LHCb experiment in the Science Pavilion
Once per month: guided tours through the physics exhibition
- July 3, 4: celebrate 10th anniversary of the Higgs discovery with a tour in the Irchel park
- Einstein exhibition: 100 years nobel prize August 29 - September 29 in the Lichthof
- Women in Physics Career Event at SPS meeting
- Open Day with 40 posters



Employee survey

Results comparable to last survey (2019)

employees are in general satisfied with a rating better than average of MNF or UZH

Positive points

- Good collaboration with colleagues/team and administration
- Overall commitment and satisfaction with job at UZH high

Employee survey

This could be improved ...

- Difficulty to switch off after work
- Disruptions during work
- Salary
- Miss connection of work to sustainable development
- UZH involvement towards sustainability
- Support for career development

Detailed remarks

- Work environment: noise in large offices, standing desks, noise from construction work, space in offices, space for meetings
- Work load: too many meetings after 17:00, too much work in general and particularly for PhDs
- Administration: too much centralisation and administrative work
- Equal opportunities and diversity: covid certificate leading to discrimination
- Salary system not transparent
- Child care
- Lack of career support/perspectives for senior scientists

Detailed remarks – pandemic

Lessons learnt (only a few):

- **Communication from UZH unclear and late**
- Zoom meetings are much more efficient comparing with in-person meetings in the same room.
- Hybrid working good for work/life balance / others prefer HO / others work in the office opinions are split
- Podcasts can be used to improve teaching
- Hybrid teaching does not work

Varia