

# General Assembly Meeting of the Physik-Institut

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# New Personnel:

**Nigel Glover**, Durham University  
visiting professor April – June 23  
hosted by the group Gehrman

Pioneer of precision calculations for high-energy  
collider physics:

- First analytic calculation of two-loop scattering amplitudes and three-loop form factors  
→ precision predictions of cross-sections at LHC
- Developed NNLOJET parton-level event generator in long-standing collaboration with groups from our institute



## New members, group Crivellin, Stoffer & Jetzer

Group Crivellin

**Sumit Banik**  
Postdoc



Group Stoffer  
**Jan-Niklas Tölstede**  
Postdoc



Group Jetzer  
**Simon Stähler**  
Senior Scientist



# New members, group Canelli

**Gautam Kunal**  
PhD Cotutelle



**Eduardo Plörer**  
PhD Cotutelle



**Rafaella Tramontano**  
Postdoc



## New members, group Janoschek, Saha & Baudis

Group Janoschek

**Wolfgang Simeth**  
Postdoc



Group Saha  
**Antonio del Rio**  
Assistent



Group Baudis

**Ali Askin**  
Academic Guest  
assistant professor at  
Munzur University in Turkey



## New members, group Gehrman & Glover

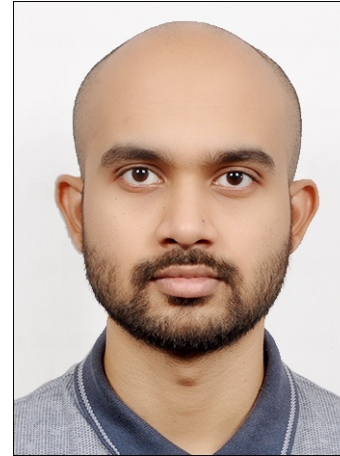
**Nigel Glover**  
Guest Professor



**Group Glover**  
**Oscar Braun-White**  
Guest PhD



**Group Gehrman**  
**Souvik Bera**  
Guest PhD



## New members, group Serra

**Maria Pilar Peco Regales**  
Technician



**Guillermo Hijano Medizabel**  
PhD



**Thomas Senger**  
PhD

**Jie Wu**  
Visiting PhD



## New members, group Chang

**Leonardo Martinelli**  
Postdoc



**Ola Forslund**  
Visiting postdoc



**Xunyang Hong**  
PhD



**Tong Wang**  
Visiting PhD



## New members, group Neupert

**Tarun Tummuru**  
Postdoc



**Mikel Iraola**  
Postdoc



## New members, Administration & Greber

Administration

**Frank Hitzemann**



Greber

**Kamil Dwinger**

Laboratory technician  
starting in June



# In Memoriam Ernst Brun, March 31, 1927 – November 19, 2022

Professor for experimental physics 1958 – 1994

- Dynamic Nuclear polarization to amplify NMR signals
- Complex nonlinear systems using NMR and laser methods → discovery of NMR laser (raser)

Dean of Faculty 1970 –1972

Director of the Institute 1972 – 1992



# In Memoriam K. Alex Müller, April 20, 1927 – January 9, 2023

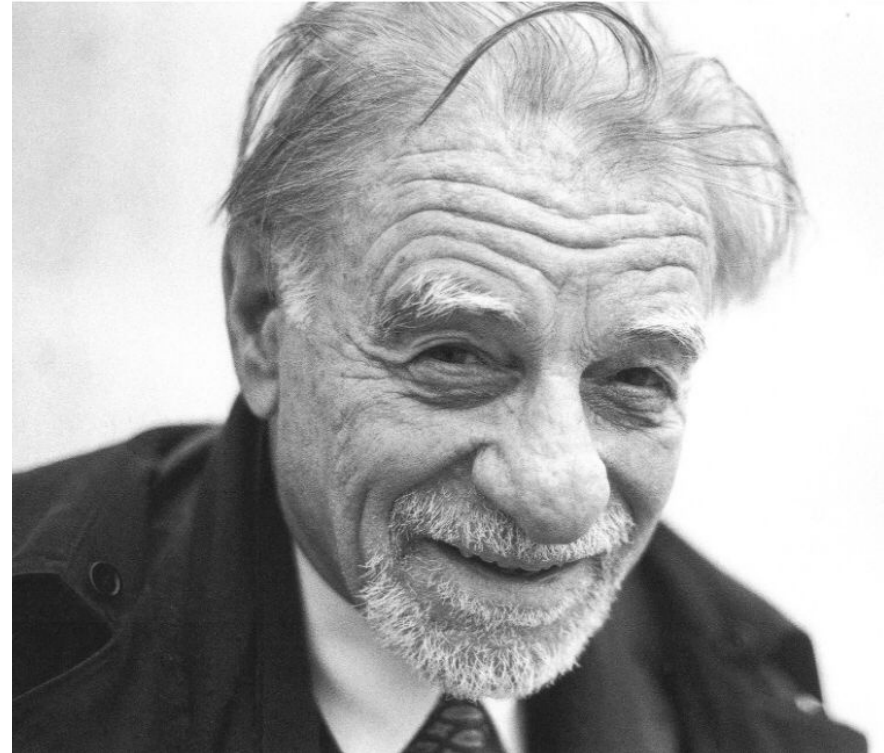
## **Nobel prize winner in Physics 1987**

Professor for experimental physics 1970 – 1994

Researcher at IBM Research Laboratory Zurich

- research focus on  $\text{SrTiO}_3$  and related perovskites
- High-temperature superconductors with G. Bednorz

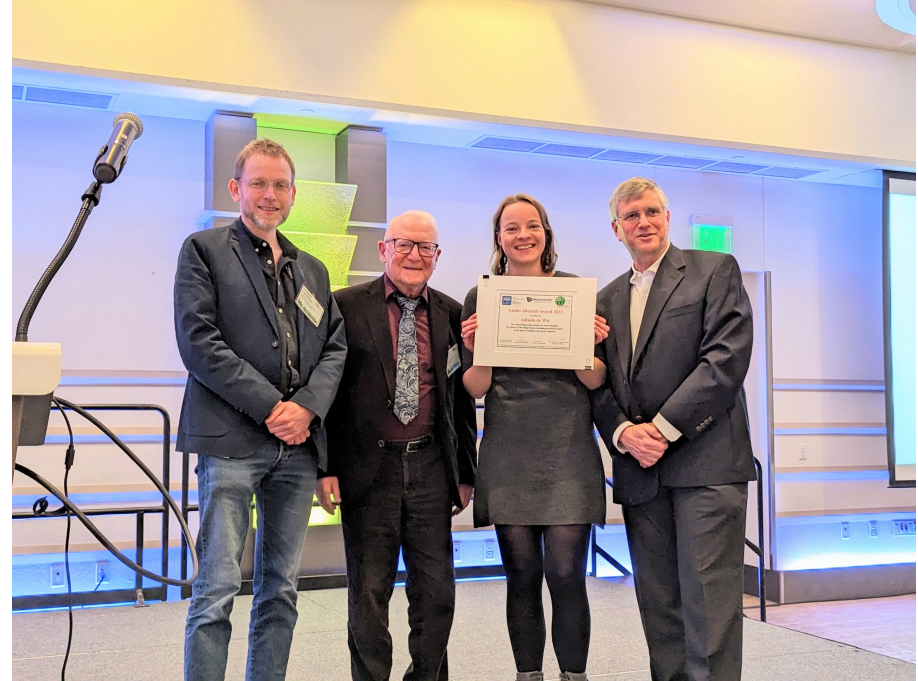
**Breakthrough 1986:** discovery of cuprate high-temperature superconductors



# Congratulations!

## **Adinada de Wit**

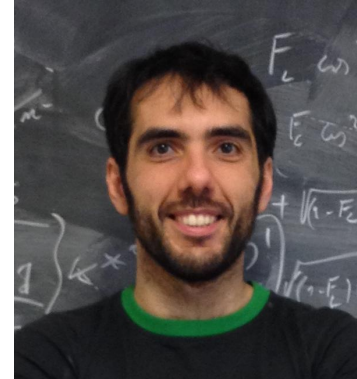
Guido Altarelli Award for "for outstanding achievements in understanding the nature of the Higgs boson, including precision studies of the quark couplings and decay channels"



# Congratulations!

## **Nico Serra - Sinergia grant**

to explore synergies in data analysis by combining expertise from particle physics, healthcare, and mathematics



## **Titus Neupert – SNF Consolidator grant**

for Interacting Topological Quantum Chemistry



# 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](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 negotiations ongoing
- **Experimental condensed matter physics**  
Quantum matter by design: symposium with 6 candidates last 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] Experimental Astroparticle Physics

# Grant Applications

Institute members (PhD students and postdocs)  
are encouraged to apply for individual grants

- allows greater independence
  - career development
  - some funding schemes can include support for own position
- UZH-internal scheme: Candoc and Postdoc (deadline 1.2. each year)
- SNSF instruments: project funding, Ambizione, Spark
- SNSF career grants: Starting (asst. professorship), Consolidator

For all applications: inform your group leader sufficiently early about your plans  
(~3 months before deadline)

# Hosting of grant applications

- Grant applications of postdoctoral researchers are hosted by the respective groups
- Only exception: career grants at level of assistant or associate professorship, hosted by institute (require MB and Inst. Assembly approval)
- Host groups guarantee the access to infrastructure
- If co-financing is required by the funding agency:  
host groups are responsible to guarantee the applicant's salary (or part thereof) for the duration of the grant

# T&R fellows

New position type since 2022

- Experienced researchers with a recognizable track record
- Experienced lecturers
- Permanent positions included in the faculty pool of T&R fellows

**2nd call: focus on the creation of innovative courses or study programs**  
(ideally new minors 30 or 60)

Procedure

- Institutes submit profiles, especially highlighting the added value of the new position to the teaching portfolio
- Faculty management selects profiles for funding
- Institutes advertise and fill the selected T&R positions
- Individual applications outside this framework are not possible

# 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

Renovation started: spring 2023

Phase 1 finished: end of 2023

Start Phase 2: 2026

Phase 2 finished: 2027



<https://www.physik.uzh.ch/en/department/Building-56.html>

# Air travel

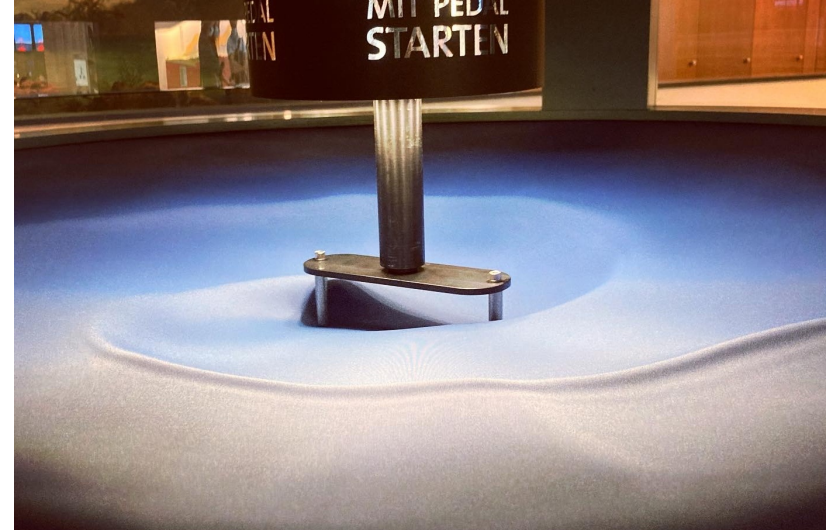
- UZH sustainable-development goals: climate neutrality by the year 2030  
largest single source of CO<sub>2</sub>: business-related air travel
- objective for 2022: **reduce to 60% of 2018/2019 status, then further -3% annually**
  - detailed central monitoring of air travels (**hand in boarding pass!**)
  - 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

# Air travel (cont)

- **MNF did not meet the goals for 2022**
- We will get the 2022 statistics for the institute
- New, more strict policies are under discussion:  
new rules for quotas  
penalty/reward system is being worked out

# Outreach

- Send input for social media, website and screen to [outreach@physik.uzh.ch](mailto:outreach@physik.uzh.ch)
- New exhibition on the gravitational waves in the Science Pavilion May 25  
Once per month:  
guided tours through the physics exhibition
- Women in Physics Career Event at SPS meeting
- Scientifica 2023 – Zurich Science Days, September 2 & 3
- **Save the date: institute hike July 12**





# Varia: Power outage May 21

**May 21: Power outage 16:29 – 17:27h** (cause: burst of water pipe in F floor)

- No campus backup power available as campus main power was present and the problem was in-house.
  - local UPS systems were drained and "secured" systems went offline subsequently
- Network restored only on Mon 22, ca. 06:20h, ca. 14h without network

Emergency contacts for PI: Roland Bernet and Achim Vollhardt

HOWEVER: the contacts are given with office phone numbers and email

→ no communication possible outside office hours

Lesson learned: If you have critical hardware, consider alternate ways of alerting (independent of UZH infrastructure).

# Varia: New Network Y11 and Y36

New network NAC (Network Access Control), identical to Y15 (installed in March)

Scheduled for August (Y11) and October (Y36), exact date and time is not yet available

NAC means

- any devices on the network need to be registered by the user (username/password), as you do already for WLAN.
- For special devices also a registration over the MAC address is possible.

The schedule also depends on the space and power connection in the room where the routers are hosted, e.g. can we run the new and the old network in parallel.

Worst case, there will be no network (cable, WLAN, telephone) for 24 hours in the building.