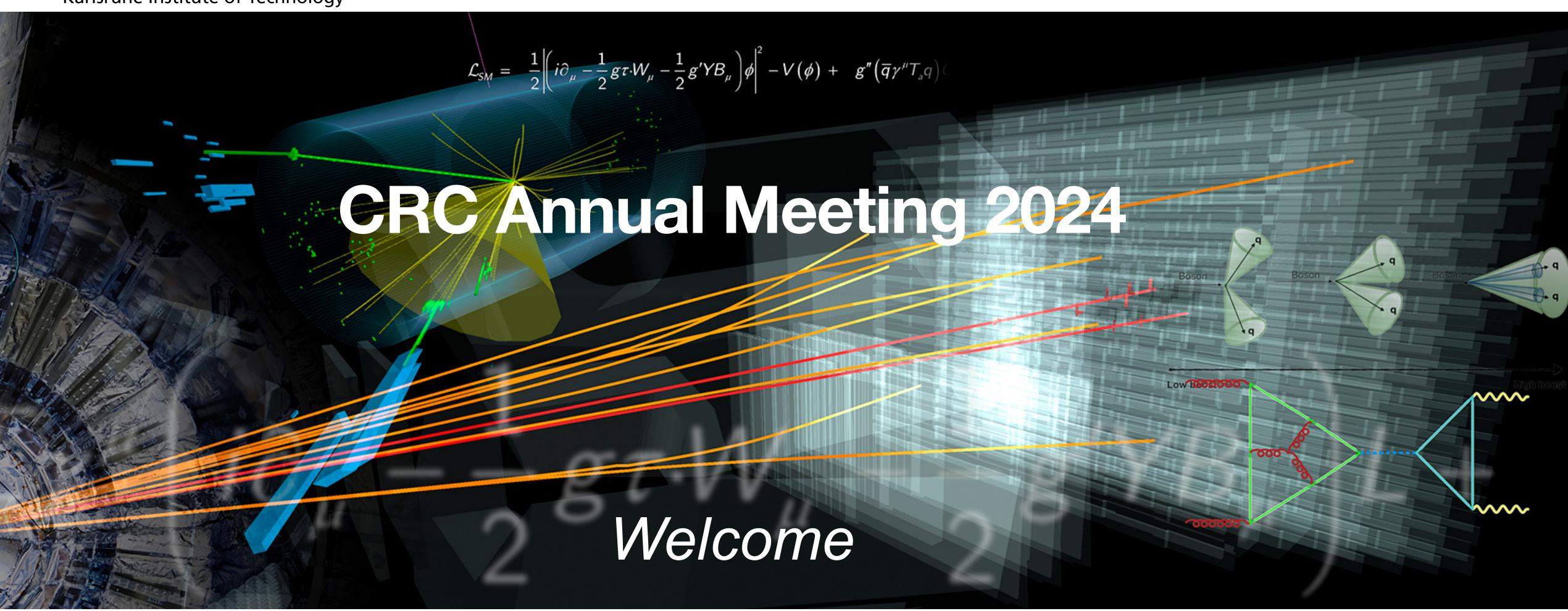


Particle Physics Phenomenology after the Higgs Discovery



## Particle Physics Phenomenology after the Higgs discovery



### Welcome everybody!

Welcome in particular to the advisory board members Genevieve and Stefan!

Full advisory board: Genevieve Belanger, Sally Dawson, Stefan Dittmaier, Zoltan Ligeti

- About one third of the second funding period has already passed
- The purpose of this meeting is to
  - get updated about the science and related activities in the CRC
  - have a General Assembly, including elections
  - have a meeting of the PIs and the Young Scientists
  - discuss, socialise, ...

## Activities



- Doctoral exchange program (6 exchanges so far)
- Outreach see talk by Robert Harlander
- Equal Opportunities
  - GenderHEP Journal Club:
    - Tilman Plehn: summary of the KET document on Careers in particle physics in Germany
    - Emma Geoffrey: "How to be a kind and happy researcher"
  - Workshop by Emma Geoffrey and viewing of "Hidden Figures" at Young Scientists Meeting in Siegen
  - site-specific events
- Events
  - Colloquia
    - Gradient Flow concepts and applications: Oliver Witzel, Robert Harlander
    - Axion-like particles: New physics below the GeV scale?: Felix Kahlhöfer
    - Searching for the Pulse of SUSY (Dark Matter): Sebastian Baum
  - Physicists in industry talk by Sophia Borowka "From theoretical particle physics to entrepreneurship"
  - Workshops e.g. Mathematical Structures in Feynman Integrals (Tobias Huber et al.)

## CRC Summer School 2024



#### September 30 - October 4, 2024 in Bingen am Rhein

https://indico.scc.kit.edu/event/3982/

#### Lectures on

- Effective Field Theory, Higgs Phenomenology (Sally Dawson)
- Amplitudes (Lorenzo Tancredi)
- Resummation and Parton Showers (Silvia Ferrario Ravasio)
- Flavour Physics as a Window to New Physics (Zoltan Ligeti)
- Machine Learning (Claudius Krause)
- Quantum Computing (Michael Spannowsky)

Registration closes April 30, 2024



### Thanks



- Equal Opportunities Manager *Malgorzata Worek*
- Young Scientists Representatives

  Nicoline Hemme, Eleftheria Malami, Magnus Schaaf
- Management board Michael Krämer, Thomas Mannel, Kirill Melnikov, Tilman Plehn
- Outreach Team Robert Harlander, Marie Hein, Magnus Schaaf, Felix Kahlhöfer, Anton Osson, Alexander Lenz, Anastasia Boushmelev, Zachary Wüthrich, Tilman Plehn
- Web-admin *Marco Bonetti*
- Computer admins Sowmyia Balan, Lisa Biermann, Marco Bonetti, Manuel Egner, Marius Höfer, Vitaly Magerya, Jonas Matuszak
- New CRC secretary Tatjana Gordeeva

## Organisation at the meeting:



- Lunch will be served outside the lecture hall on both days
- The dinner tonight is in <u>Badisch Brauhaus</u>, Stephanienstr. 38, 20mins walk from here
- The hotel room will be paid directly by KIT if you booked with the keyword SFB 2024 or in the KIT Guest House

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**Enjoy the Meeting!**