



# Welcome!

Sascha Stahl

Deputy Director, CERN Schools of Physics

On behalf of the international and local organizers of the School



## European Schools of High-Energy Physics

- Series of schools targeting PhD students in High-Energy Physics dates back to the 1960s
  - This year in Grenaa, Denmark!
- Mission:
  - Latest developments in High-Energy Physics (theory, phenomenology and data analysis) taught by world class scientists
  - Aim to foster cultural exchange and networking between participants from different countries and regions
- We hope you can use this opportunity to learn as much as possible in these two weeks and to meet new people.



# Organizers

(those present at the School today)

- For the International Organizing Committee:
  - Sascha Stahl (Deputy Director, CERN Schools of Physics)
  - Markus Elsing (Deputy Director, CERN Schools of Physics)
  - Kate Ross (Administrator, CERN Schools of Physics)
- For the Local Organizing Committee:
  - Stefania Xella (Local Director for 2023 School, Niels Bohr Institute)
  - Ulrik Uggerhøj (Aarhus University) and Mads Fransen (University of Southern) will join later.

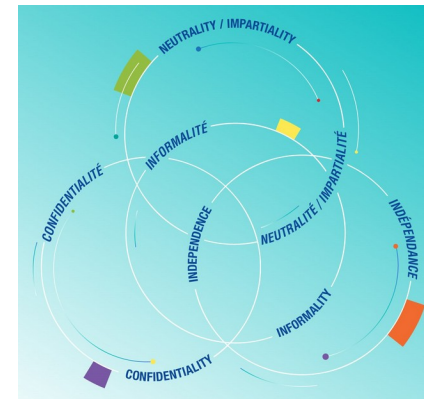


# Organizational issues

- School's Office
  - **Kate Ross** will be pleased to help in case of questions, problems or requests
  - Our office is located in **Mødesal 7 in the long corridor right of the reception**
  - There is a sign and the school poster is on the door of the office
- We keep the WhatsApp group for official communication

## Be nice

- Be welcoming and respectful to each other and to other guests in the hotel ( [CERN code of conduct](#) )
- We hope there won't be any issues but in case you witness or experience inappropriate behaviour or harassment:
  - [Kate](#) and/or the [CERN Ombud](https://ombuds.web.cern.ch/) (<https://ombuds.web.cern.ch/>, [ombud@cern.ch](mailto:ombud@cern.ch)) are available as points of contact





## Programme for today

(see web pages for the full programme)

- 09h00 Welcome
- 09h10 Field Theory & EW Standard Model, **Anna Kulesza**
- 10h40 Coffee break
- 11h00 QCD, **Gudrun Heinrich**
- 12h30 Lunch
- + Free time*
- 15h30 Cosmology, **Mikhail Shaposhnikov**
- 17h00 Coffee break
- 17h30 Discussion sessions – until 19h00
- 19h00 Welcome drink and Dinner



# Lectures

- Lectures last 1h15, plus time for questions
  - Please don't be shy to ask questions, even if they seem basic to you!
    - During the lectures and also at the end
  - Handouts available before each lecture with printout of the presentation, or download them to your tablet before the lecture
    - Make notes on your handouts or your tablet device
    - Take them to the discussion sessions
    - Let us know if you don't want or want a printed copy





# Discussion Groups

- Six discussion groups A, B, C, D, E, F
  - Each student is assigned to a group
    - Please check the lists in the back of the room so which group you are in
    - Discussion Leader stays with the same group for the full two weeks
  - Lecturers are invited to visit the groups
    - Help answer detailed questions on their courses
  - Discussion sessions should be driven by questions from the students
    - Please make note of points that you did not understand in the lectures or other questions that you might have
    - Make use of your lecture notes in preparing your questions





# Discussion Leaders

- Discussion Groups
  - Group A: Emanuele Bagnaschi
  - Group B: Tyler Corbett
  - Group C: Tomasz Dutka
  - Group D: Maximilian Loeschner
  - Group E: Alba Soto Ontoso
  - Group F: Giovanni Stagnitto
- Discussion sessions are all in the long corridor right of the reception
  - Grupperum 7 (B) to 11 (F) and 13 (A)
- Markus and I would like to brief the discussion leaders after lunch
  - Let's meet here in the auditorium at 14h00 today



# Please!

- Lectures and discussion sessions
  - Attendance is compulsory
  - Arrive on time
  - Don't use your devices for non-school work
  - Keep your focus on the lectures



## Lunch and dinner

- All meals are served in buffet style:
  - Breakfast 6h30-9h00 ; Lunch 12h30 ; Dinner 19h00-20h30
  - People who indicated special diets in the questionnaire should contact Kate when they arrive at the restaurant if they are unsure of the arrangements
- Drinks included with meals:
  - One soft drink at lunch only
  - Tap water is available at lunch and dinner
- Bar in hotel lobby at dinner and in the evening for other drinks
  - Vouchers for soft drinks, beer and wine available at the reception during the day (reduced price)
  - Otherwise drinks paid by cash or credit card
  - Do not charge anything on your room
  - Note: not allowed to buy your own drinks and consume them in public areas of the hotel.



# Free time activities

- [The beach and the forest!](#)
- Pool table and table football available in room left of the reception.
  - More on the other side of the hotel but try to stick to this side of the hotel. You can check at the reception if other guests occupy the other rooms.
- Bikes for free available after sign-up at the reception. If you need proper MTBs, you can also ask at the reception for contacts.
- Games for outside available in boxes on the terrace next to the dining room.
- ...
- Please be considerate about noise!
  - We are happy for you to have fun evenings, but please do so well away from the sleeping areas - We are not the only guests in the hotel



**Enjoy the School !**