

Welcome!

Nick Ellis

Director, CERN Schools of Physics

Organizing Committee members

(just those present at School this morning)

- International Organizing Committee
 - Tatyana Donskova
Administrator, JINR
 - Nick Ellis
Director
CERN Schools of Physics
 - Martijn Mulders
Deputy Director
CERN Schools of Physics
 - Kate Ross
Administrator, CERN
- Local Organizing Committee
 - Joan Berger
Administrator, NIKHEF
 - Olya Igonkina
Local Director

Programme for today

- 09h00 Welcome
 - Nick Ellis, Director CERN Schools of Physics
- 09h15 Lecture – Field Theory and the EW Standard Model, Ronald Kleiss
- 10h45 Coffee break – served near the auditorium
- 11h00 Lecture – Cosmology, Jonathan Feng
- 12h30-14h00 Lunch – served in restaurant
- Free time
- 15h30 Discussion session
- 17h00 Coffee break – served near discussion rooms (Groups B-F)
- 17h30 Lecture – Theory Outlook, Gerardus 't Hooft
- 19h00 Welcome drink – served in café next to restaurant
- 19h30-21h00 Dinner – served in restaurant
- Bar adjoining auditorium will be open after dinner

Gerardus 't Hooft

- **Gerardus (Gerard) 't Hooft** is a [Dutch theoretical physicist](#) and professor at [Utrecht University](#), the Netherlands. He shared the 1999 [Nobel Prize in Physics](#) with his thesis advisor [Martinus J. G. Veltman](#) "for elucidating the quantum structure of [electroweak interactions](#)".
- His work concentrates on [gauge theory](#), [black holes](#), [quantum gravity](#) and fundamental aspects of quantum mechanics. His contributions to physics include a proof that gauge theories are [renormalizable](#), [dimensional regularization](#), and the [holographic principle](#).

Lectures and Discussion Groups

- Lectures last 1h15, plus some time for questions
 - Please don't be shy to ask questions, even if they seem basic!
- Six discussions groups A-F
 - Each student is assigned to a group
 - Please check the list that we have posted to see 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 notes of points that you did not understand in the lectures or other questions that you might have
 - Make use of the handouts (copies of the presentations of the lecturers) that we will try to distribute before each lecture for most of the courses

Discussion Leaders

- Discussion Groups
 - Group A: Pierre Artoisenet
 - Group B: Alexander Bednyakov
 - Group C: Cedric Delaunay
 - Group D: Alexey Gladyshev
 - Group E: Christian Pisano
 - Group F: Kai Schmidt-Hoberg
- Group A will meet in the auditorium, Groups B-F are in the meeting rooms beyond the School secretariat, towards the swimming pool
- Martijn and I would like to meet the Discussion Leaders after lunch to explain a few points
 - Meet in the auditorium at 14h00

Please!

- Lectures and discussion sessions
 - Attendance is compulsory
 - Arrive on time
 - No laptop computers
 - No phones or other electronic devices
- Nothing should be charged to your rooms
 - Pay as you go for drinks and services
- Please read the handout that you were given when you arrived yesterday!
 - Please take note of ad hoc announcements given before/after lectures
- In particular, please take note on the following:
 - Phones (take care of international roaming charges!)
 - Internet access (bandwidth is very limited, show solidarity!)
 - White towels from the bedrooms must not be used for the pool, etc.

Meals and drinks

- Buffet service for breakfast, lunch, dinner
 - Dishes are labeled in English
 - Will always have a vegetarian option available
- Drinks included with meals
 - Lunch
 - Non-alcoholic drinks (with buffet)
 - Dinner
 - One small soft drink or beer or glass of wine per person (served at table)
- Coffee and tea available all the time at self-service machines
- Drinks at bar in the evenings
 - Special price for the School participants EUR 2.75
 - This is for a small soft drink, small beer or small glass of wine
 - Other drinks are at the regular prices of the hotel

Football

- We have asked the hotel to record some of the matches that are played during teaching periods and excursions
 - E.g. Italy vs Costa Rica at 18h tomorrow
 - Will do replay in games room after dinner if there is demand
- Live matches can be watched in the lobby and/or bar – will make arrangements according to level of interest
 - E.g. Uruguay vs England at 21h today
- REQUEST:
 - Please do not stream matches to your own computers, phones, etc - it will degrade the Internet performance for everyone else!

Secretariat

- Located on the corridor towards the pool (School poster is on the door)
 - Please come and talk to us in case of questions or problems
 - We will do our best to help

Facebook Group ESHEP2014

- See Bulletin for the details
 - <https://www.facebook.com/groups/276966092475635/>
 - Upload photos (we may even use some for the proceedings!)
 - Keep in contact with each other after the School

The 2014 European School of High-Energy Physics

Garderen, the Netherlands 18 June – 1 July 2014

Enjoy the School!