



Welcome!

Nick Ellis

Director, CERN Schools of Physics



Organizers

(those present at School today)

- Local Organizers
 - Hernan Castillo (LOC, PUCP)
 - Alberto Gago (chair, LOC, PUCP)
 - David Pacheco (LOC, UNSA)
 - Rolando Perca (LOC, UNSA)
- International Organizing Committee members
 - Luis Alvarez-Gaume (IOC, CERN; also lecturer)
 - Tere Dova (IOC, UNLP; also lecturer)
 - Nick Ellis (IOC, Director, CERN Schools of Physics)
 - Martijn Mulders (IOC, Deputy Director, CERN Schools of Physics)
 - Kate Ross (IOC, Administrator, CERN Schools of Physics)



Programme for today

(see handout for the full programme)

- 09h00 Welcome
- 09h05 Lecture, Field Theory and EW Standard Model, **Luis Alvarez-Gaume**
- 10h35 Coffee break
- 11h00 Lecture – Cosmology, **Juan Garcia-Bellido**
- 12h30 Lunch – served in restaurant
- Free time [see later for available activities]
- 15h30 Lecture – Ultra-High-Energy Cosmic Rays, **Tere Dova**
- 17h00 Coffee break
- 17h30 Discussion session – until 18h45
- 19h00 Welcome drink
- 19h30 Dinner – served in restaurant
- Bar (near hotel reception) after dinner where you can buy drinks



Lectures

- Lectures last 1h15, plus some time for questions
 - Please don't be shy to ask questions, even if they seem basic!
 - Handouts before each lecture
 - Insofar as possible
 - Make notes on your handouts
 - Take them to the discussion sessions



Discussion Groups

- Four discussions groups A, B, C, D, E
 - Each student is assigned to a group
 - Letter on back of your badge tells you which one
 - List will also be posted outside of the auditorium
 - 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 the lecture hand-outs in preparing your questions



Discussion Leaders

- Discussion Groups (list also posted outside auditorium)
 - Group A: Joel Jones – near hotel entrance
 - Group B: David Delepine – in bar
 - Group C: Lorenzo Diaz Cruz – near hotel entrance
 - Group D: Alfonso Zerwekh – near hotel reception
 - Group E: Alberto Gago et al – in auditorium
- I would like to meet the discussion leaders after lunch today to explain a few points
 - Meet in the auditorium at 14h00



Organization

- Secretariat
 - Kate Ross (CERN Schools Administrator) will be pleased to help in case of questions or problems or requests
 - Our secretariat is located near the hotel reception
 - School poster is on the door of the secretariat
- Notices
 - Check notice board outside of auditorium
 - We will put up a note if we need to talk to you



Internet

- Free wireless internet
 - See handout that you received when you arrived for password
- Only to be used outside of lectures and discussion sessions!
- Given the large number of participants we ask you to show restraint in your use of bandwidth!
 - Avoid uploading/downloading big files, especially at peak times
 - Use Skype with audio only rather than video calls
 - Etc



Please!

- Lectures and discussion sessions
 - Attendance is compulsory
 - Arrive on time
 - No laptop computers
 - No phones or other electronic devices



Lunch and dinner

- Buffet service
 - Two self-service points
 - Parallel processing! Don't all wait in the first line
 - You can go back and get more food later
 - People who indicated special diets in the questionnaire should contact Kate Ross if they don't know the arrangements
- Drinks included with meals
 - Lunch – one soft drink per person
 - Coffee at the pool bar, tea near the reception
 - Dinner – one soft drink per person
 - Coffee and tea near the reception
- Bar open after dinner
 - You must pay in cash – no charges on your rooms!



Sports and leisure activities

- Sports and leisure facilities include
 - Football (ball can be borrowed from the reception)
 - Volleyball (equipment can be borrowed from the reception)
 - Table tennis (equipment can be borrowed from the reception)
 - Swimming pool (ask at reception if you need a towel; don't use towels from your bedrooms)
 - Pool table (equipment can be borrowed from the reception)
 - Tennis (equipment can be rented from the reception)
- Horse riding – 5 people per day (15 people on Saturday 16 March free afternoon)
 - **Sign up at the secretariat, e.g. at the coffee break**
 - **There are 5 horses this afternoon**
 - First come first served (but should be enough places for everybody)
 - Need to sign liability waiver from the hotel when you sign up
 - Each person can go once only
 - Gentle ride, duration about 1h starting at 13h30 outside the hotel



Practical issues

- Laundry
 - Hotel has a laundry service – you need to pay directly to the hotel reception
- Money exchange
 - Hotel reception can change small amounts of money (USD, EUR)
 - Transport to local shopping centre with ATMs this afternoon
 - **Sign up at secretariat during the coffee break**
 - First come first served – 15 places in minibus
 - Leave at 13h45 from hotel, returning at 15h00 sharp from the shopping centre



Other issues

- Please take note of the guidance given on the handout that you were given on your arrival
 - Drinking water
 - It is recommend that you don't drink the tap water
 - Avoid sunburn
 - The sun here is stronger than you might think!
 - Phones
 - International roaming on mobile phones can be extremely expensive
 - You need to pay yourselves for items that are not included in the fee
 - Should not charge anything to your rooms, pay in cash or with credit card
 - Toilets
 - Toilet paper in the bins provided please



Enjoy the School!