

STFC HEP Summer School 2025

Stefania Ricciardi, STFC RAL
Director of the school

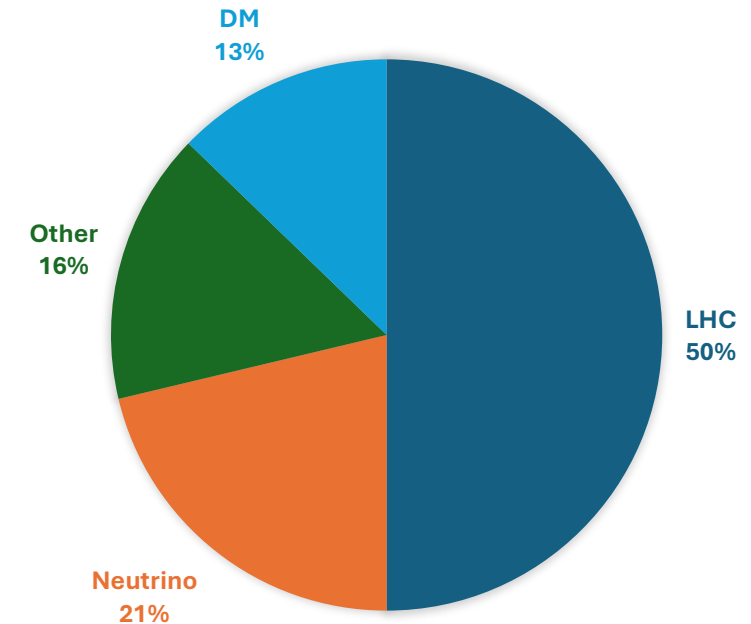
Daniel Maitre, IPPP and Durham University
Deputy and local director of the school



Welcome

- Welcome to the 54th edition of the STFC HEP Summer School
- Attended by all UK Particle Physics Experiments (PPE) graduate students in the first year of their PhD
- School main goals:
 - provide theoretical background for PPE research
 - build a cohort of students with broad breath of physics interests
 - 50/50 split with collider / non collider
 - Please attend all poster sessions to see what other students are doing in your year

2025 STFC HEP SUMMER SCHOOL



Academic Programme

- 6 series of theoretical lectures
 - Week 1: QFT (9h), QED/QCD (8h), SM (4h)
 - Week 2: SM (4h), Collider Phenomenology (7h), Neutrino (4h), Dark Matter (3h)
 - The level of the lectures inevitably can not suit everyone in the same way
- Tutorial runs everyday in the afternoon
 - The level of difficulty, e.g. algebra or concept, can differ from day to day
 - **We do not expect you to solve all the problems in full within the self-study time**
 - You are expected to read through all the questions
 - We encourage you to study in groups (either small or large) within or outside your tutorial group
 - Tutorial groups are different in the two weeks, please **check which group you have been assigned to at the start of each week**
- 4 poster sessions to present/or discuss with your fellow students
 - Attendance is required for all sessions (not just the session you are presenting)
- Outreach event scheduled on 3-Sep. to promote scientific communication beyond academia
- Career event on 11-Sep. for a “earlier peek” towards career development

Remember: this school is your school, adapt it the way for you to get the most out of it!

Social events

We have six scheduled social events are:

- Arrival reception
- 4 poster sessions (4 evenings, after dinner)
 - College Bar will be open on those evenings for you to purchase the drinks you like
- Formal school dinner (last evening, Sep. 11th)
 - No formal dress code, business casual usually turns out to be just all right
- We encourage “spontaneous social events”
 - Get in touch with me with your proposals even if it is not well planned out, if you need any help in organising it
- Mid-school weekend break
 - No scheduled events on Saturday or Sunday
 - Breakfast/dinner are provided as usual, but not lunch
- We expect all students/staff to show respect and courtesy to other attendees in the school
 - We have a zero-tolerance policy to any discrimination, harassment or bullying

Code of Conduct



Science and
Technology
Facilities Council

<https://conference.ippp.dur.ac.uk/event/1473/page/273-code-of-conduct>

- We value the participation of everyone and want all participants to have an enjoyable experience
 - Accordingly, all attendees are expected to show **respect and courtesy** to other attendees and staff.
- Expected behaviour of participants at the Summer School
 - Be on time for the start of every session
 - Switch off your phone during sessions
 - Behave professionally
 - All communication should be appropriate for a professional audience
 - Sexual language, sexist, racist or exclusionary jokes and images are not appropriate
 - Drunken or disruptive behaviour will not be tolerated. Use of illegal drugs is strictly prohibited.
 - Participants are entitled to raise a complaint with the School Director, who will take the appropriate remedial action.

Travel Claims

- **STFC and self-funded students** can claim the cost of travel and any additional meals required that are not already provided by the school
 - You are required to keep all receipts for purchases that you wish to claim back from STFC, these receipts must be dated and itemised. Submit the claim after the end of the school
 - Contact: studentships@stfc.ac.uk
 - Forms can be found in the school Overview Indico page
- **All other students** need to claim through their home institution
- If you are unsure of your funding source, contact your supervisor

Contacts

- Main contact during the school
 - Director stefania.ricciardi@stfc.ac.uk
 - Please feel free to approach also other teaching staff as well where you see fit
- In case of an **emergency**, please **contact the Durham University security staff**
- For college and catering, you can also approach the college porter
- You can raise any issues/complaints, or give feedbacks during the school through this **anonymous feedback form** [clickable link, also linked to school Overview Indico page]