

The 2024 STFC HEP Summer School

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Director of the school (2022-24)

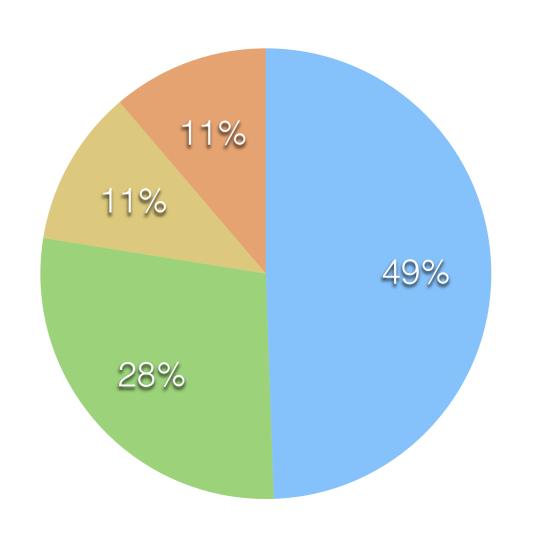
Daniel Maitre, Deputy director of the Durham University IPPP

Deputy (and local) director of the 2024 school

Welcome

- Welcome to the 2024 the 53rd STFC
 HEP Summer School, attended by all UK PPE
 PhD first year students
- LHCNeutrinoDark Matter

- This school aims to provide theoretical background for UK PPE research
 - Traditionally it was focused on collider physics
 - PPE landscape has changed drastically over the last decade
 - 50/50 split with collider / non collider
- This school aims to built a cohort of students with broad breath of physics interests
 - Please attend all poster sessions to see what other students are doing in your year



What to expect in this school academically?

- 6 series of theoretical lectures
 - Week I: 9 QFT, 8 QED/QCD, 4 SM
 - Week 2: 4 SM, 7 Collider Phenomenology, 4 Neutrino and 3 DM
 - 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
- 4 poster sessions to present/or discuss with your fellow students
 - Attendance is required for all sessions (not just the session you are presenting)
- Career event on second week for a "earlier peek" towards career development
- An outreach event is scheduled on 3-Sep. to promote Equality Diversity and Inclusion of our field
- Bottom line: this school is your school, adapt it the way for you to get the most out of it

What to expect in the school socially?

- We encourage social interactions at a professional standard, in this school
- We have six scheduled (and catered) social events are
 - Arrival reception
 - 4 poster sessions
 - Formal school dinner (no formal dress code, business casual usually turns out to be just all right)
- We have funds to support "spontaneous social events"
 - Get in touch with me with your proposals even if it is not well planned out throughout
- 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 on the basis of, for example, gender, race, religion, sexual orientation, martial or civil partner status, gender reassignment, nationality, ethnic or intellectual/professional achievement.

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 and these receipts must be dated and itemised and submit this claim after the school finishes
 - Contact: studentships@stfc.ac.uk
 - Forms can be found in the School indico page
- For all other students you need to claim through your home institution
- If you are unsure of your funding source, please contact your supervisor

Who to contact?

- First contact during the school
 - Director <u>yanyan.gao@ed.ac.uk</u>
 - 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:
 - https://forms.gle/XgB4X7U3WAZGQedq6