

# XIV NExT PhD Workshop

*The shape of new physics to come*

15<sup>th</sup>-18<sup>th</sup> July 2024

The Cosener's House, Abingdon, UK



# Welcome!

- **Rooms:** check in from 14:00, leave your luggage at reception
- **Meals:** in the restaurant on the left as you enter the lobby
  - Breakfast & Lunch (12:30) : buffet
  - Dinner (19:00)
  - Coffees in the Garden room (here)
- Please indicate transport preferences **by the end of the day** for shuttle buses on Thursday (Oxford or Didcot train station) at workshop reception desk (let us know if your choice is full)
- If the fire alarm goes off, exit the building & follow green signs to assembly point on the lawn

# Lectures

Tevong You  
*King's College London*

**Motivations for physics beyond the Standard Model**

**Monday & Tuesday**

Sarah Williams  
*U. of Cambridge*

**Experimental challenges for future colliders**

**Monday & Tuesday**

Francesca Chadha-Day  
*IPPP, Durham*

**Theoretical and experimental probes of Axion-like particles**

**Tuesday & Wednesday**

Graham White  
*U. of Southampton*

**Gravitational wave cosmology/astronomy for fundamental physics**

**Wednesday & Thursday**

Ramon Winterhalder  
*UCLouvain*

**Machine learning methods for new physics searches**

**Wednesday & Thursday**

- All lectures will be in the Garden room (here)
- Zoom link: <https://ukri.zoom.us/j/98859636291?pwd=2epkahDI6ckdjHo5srePAJ9xdcppOp.1> Password: 108398

# Events

- **Reception:** this evening @18:30
  - At the bar next to the restaurant
  - Collect your drink voucher when you register
- **Academic careers panel:** Tomorrow @16:30
  - Round table discussion/Q&A
  - We need your help for this! Ask your questions anonymously on the [google doc](#)
- **Poster session:** tomorrow @17:30 w/ wine & cheese
  - Garden room, please bring your posters after the panel session
- **SEPnet careers round table:** Wednesday @11:00
  - Organized by Claire Hepwood
- **Student talks:** Monday, Wednesday & Thursday (~20 minutes)
- **Prizes for best posters & talks!**

# Have fun!

- Workshop is a training & networking event
  - Many of you will cross paths again
  - Perhaps you may end up collaborating in the future!
- Thank you to our lecturers for agreeing to contribute
- Thank you to our sponsors, STFC & SEPnet
- We would be very grateful if you could fill out a feedback form at the end of the workshop  
<https://app.onlinesurveys.jisc.ac.uk/s/stfc/2024-student-feedback-form>
- Any questions, issues, please ask Graham, Jacob & myself