

# XIV NExT PhD workshop 15-18 July 2024 at Cosener's House, Abingdon, Oxford – Register Now!

The NExT PhD workshop is the Summer School of the NExT Institute, targeting PhD students working in theory, experiment and phenomenology within particle physics, astrophysics and cosmology.

The programme includes five lecture series on current topics in high energy physics, with an emphasis on cutting edge developments, networking and panel events discussing careers inside and outside of academia, and dedicated sessions for student talks and poster presentations.

## Lectures:

- ❖ *Motivations for physics beyond the Standard Model, Dr. Tevong You, King's College London*
- ❖ *Experimental challenges for future colliders, Dr. Sarah Williams, University of Cambridge*
- ❖ *Theoretical and experimental probes of Axion-like particles, Dr. Francesca Chadha Day, IPPP, Durham*
- ❖ *Gravitational wave cosmology/astronomy for fundamental physics, Dr. Graham White, University of Southampton*
- ❖ *Machine learning methods for new physics searches, Dr. Ramon Winterhalder, UCLouvain*

## PhD participation:

Accommodation, tuition and catering are free of charge for STFC and self-funded PhD students. We also have similar support for a limited number of other PhD students from the NExT Institute nodes. Depending on budget, travel may also be (partially) refunded, so please retain travel receipts. The total number of PhD participants is limited to 38, with precedence being given to those in year 1, so please try to register promptly to ensure your participation. PhD students are encouraged to discuss their research in dedicated sessions via poster and talk presentations.

## Student talks & poster session:

Students are encouraged to submit abstracts for a short (15'+5') talk or to present a poster at the poster session on Tuesday evening. Small prizes will be awarded for the best student talk & poster.

If you would like to give a talk, you can submit an abstract via the call for abstracts page. Limited slots are available so these will also be moderated by the organisers. If you would like to present a poster, please fill in the relevant section in the registration form.

## Career development events:

SEPnet employer panel: This event is aimed at raising awareness of career opportunities outside academia for physics doctorates. Panel representatives, all with physics or PhD backgrounds, will spend a few minutes outlining their role, what their organisation does, what skills/knowledge they are looking for and why they might be interested in physicists. The panel session will be followed by a Q&A session and an opportunity for students to talk to employers in small groups.

Academic careers panel: A selection of academics at various career stages will participate in a Q&A session and round table discussion about the academic career path.

## Topics:

Physics beyond the Standard Model, Phenomenology, Axion-like particles, Astroparticle physics, Machine learning methods, Future colliders

**To register and for further details click**

**here:** <https://indico.cern.ch/event/1330651/> Registration deadline 17 May.