



# Welcome to 9<sup>th</sup> UK LArSoft Workshop

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Slack: #fnal-computing



# Introduction

- This is the ninth (gasp!) instalment of a workshop we have been running for nine years now to introduce students and PDRAs new to the world of LArSoft to the tips, tricks and pains of it (because, we've all been there).
- This workshop has served as a place to get to know other people working on your experiment (or other experiments that are similar).
- Many of the tutors have attended one of these in the past (we are now “self-sustaining” ;- ) ).
- We will teach you the basics and you can take it from there and do awesome things.
- The slides will be there in case you need to look things up later.



# Structure

- The workshop consists of a mix of lectures and hands-on tutorials.
  - Typically we start with a lecture followed by a hands-on tutorial, but it can vary by topic.
- We will cover: Fermilab computing, larsoft TPC simulation, Irsoft light simulation, LArTPC reconstruction with pandora, analysis with larsoft, and deep learning
- The output of each tutorial session should feed into the next one; We have backup files in case of trouble(i.e. you don't complete a tutorial)



# Logistics pt.1

- We will be working primarily on a local server, but accessing it via a web browser [guacamole vnc service]:  
<https://lar24.edi.scotgrid.ac.uk/>  
you should have received login instructions from Dom.
- You should be on the “2024UKLarSoftSchool” Slack. (Holler if that’s not the case). Each lecture/tutorial will have its own dedicated slack channel for questions, e.g. #lecture\_welcome\_and\_intro
- The accounts on t3-mw2.ph.ed.ac.uk machine will unfortunately be wiped at some point in the next few week. The scripts for the workshop are in github, but if you want scripts/config files you wrote – scp them yourselves sooner rather than later.
- We are assuming you have an eduroam account. Let us know if that’s not the case – we can generate some guest accounts.



## Logistics pt.2

- Remote participants can type your questions during lectures/tutorials into the slack channel and the chair will ask it.
  - Lecturers/Tutors may be ok with direct questions during the lecture – they'll let you know.
- You should have received an email with the zoom link. Ping us if you don't have it.
- Questions/Problems with tutorials/software: ask Dom or me – or just ask on Slack.



# Logistics pt. 3

- All of the classes will be in this room: 3208
  - This is technically a lab, so please do not bring food and drinks into it. The Magnet cafe is just down the corridor.
- The coffee breaks and lunches will be in the magnet cafe (sort of behind the wall opposite the door ;-)).
- We will have a social dinner. In the pear tree bar, Tuesday at 7pm. We are able to pay for the food, but not for the drinks.



# Big Thanks to:

- Rob Currie for setting up the computing infrastructure for us.
- Thelma, Angela and Emma from the School of Physics and Astronomy Event organization for organizing the coffee breaks, lunches and general school admin to allow us to hold the meeting.
- DUNE-UK RS&DC for financial support.
- Miquel and Marina for their help on the ground here.



# Introductions

- After I finish (in one slide) Let's go around the room (and the zoom) and say hi. I'll start.





Have fun and enjoy yourselves.