



# Welcome to 6<sup>th</sup> UK LArSoft Workshop

Andrzej Szec  
Dom Brailsford,

Slack: [#lecture\\_welcome\\_and\\_intro](#)



# Introduction

- We hope you are all doing well in these challenging circumstances we find ourselves in.
- This is the sixth instalment of a workshop we have been running for six 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.
- Last year we had to run the workshop fully online. That seemed to work reasonably ok. This year we will try a hybrid approach, let’s see how that works.
- This year is the first year when Dom Brailsford has officially taken over as main-organizer. It’s also the first year we are doing the workshop not in Manchester.



# Structure

- We have sessions: Introduction, Simulation, Scintillation Light\*, Reconstruction, Starting an analysis and Higher-level analysis. This is followed by a quick tutorial in Deep Learning.
- First two used to be split into a 1hr “lecture” and 2-3 hr hands on tutorial session with slides. We are now slowly moving towards a more interspersed setup.
- The output of each tutorial session should feed into the next one (we have backup files in case of trouble)
- Big thanks to the tutors and lecturers M. Nebot-Guinot (Edinburgh), A. Navrer-Agasson & P. Green (Manchester) L. Whitehead & S. Dennis (Cambridge), A. Chappel, R. Cross, M. Brunetti (Warwick), A. Borkum (Sussex), R. Jones & E. Tyley (Sheffield), T. Ham (Liverpool) and D. Garcia-Gamez & F. Nicolas-Arnaldos (Granada)
- Also thanks to the tutorial assistants: D. Marsden, M. Reggiani-Guzzo (Manchester), H. Lay, N. Patel & C. Thorpe (Lancaster), V.C.L. Nguyen (Sheffield).

\*New this year



# Logistics pt. 0

## COVID19

We all have a duty of care to limit the spread of COVID19 and protect each other. The following guidance should be followed prior to, and during, attendance at the workshop.

- You must have gotten a negative result from a PCR test or Lateral Flow test prior to starting your journey to Edinburgh, regardless of vaccine status
- You must get a negative result from a Lateral Flow test on the Tuesday morning (2nd November), before attending any further sessions. You can order a box of Lateral Flow tests from the government website
- You should wear a mask at all times during the lectures and tutorials unless you have an exemption
- You should frequently sanitise your hands. Try to stick to one Desktop throughout the workshop if possible.
- We must all give each other space. (you can try to keep to one person per desk, if you're not in the same accomodation, and if you can see the screen ;-)
- If you develop COVID19 symptoms prior to, or during, your time at the workshop then you must not attend any session in person



# Logistics pt.1

- For the remote participants, we will be using a combination of zoom and slack to communicate.
- You should be on the “2021UKLarSoftSchool” Slack. (Holler if that’s not the case). Each lecture/tutorial has its own dedicated slack channel for questions, e.g. #lecture\_welcome\_and\_intro
- You should be able to log in to the phcomputepe01 machine using the guacamole vnc service. If not ping us in #connection-debugging – we’ll try to help.
- The phcomputepe01 machine will unfortunately be wiped at some point next week. We will try to prepare a tarball with the config files, but if you want scripts/config files you wrote – scp them yourselves ASAP.



# 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.
- During tutorials we will have zoom breakout rooms, which you can use.
  - You can either sit in a room with other participants working on a task.
  - and/or the tutors will invite you into a room for one-on-one debugging sessions if needed.
- Questions/Problems: ask Dom or me – or just ask on Slack.



# Recording

- We have been asked to record the workshop for future use.
- The recording will be only in the main room and only during lectures and lecture-parts of tutorials.
- If you do not want to be recorded please turn off your camera and mute.
- If for any reason you have a problem with the recording happening at all – please get in touch with me on slack or via email.



# Big Thanks to:

- Rob Currie for setting up the computing infrastructure for us.
- Sean McGeever and his team, and Hannah Bartlett, for helping us find this room and setting it up for the workshop.
- Lyndsey, Thelma and Ines 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 for financial support.
- Miquel, Alice, Jiaoyang and Holly 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.