



Welcome to 10th UK LArSoft Workshop

Andrzej Szelc
Dom Brailsford,
Miquel Nebot-Guinot

Slack: #fnal-computing

Introduction

- This is the tenth (gasp!) instalment of a workshop we have been running for ten 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.



The University of Manchester



Introduction

- If you are scared of all the acronyms – you should be.
- Hopefully you won't be by the end of the week.
- I will talk about the dark underbelly of FNAL computing, or the context in which you will be running your jobs.
- This should help you understand what you're doing and debug problems when they arrive (and they will).
- Don't be afraid to ask for help – FNAL computing is a bit confusing at first, but many people have figured it out.
- I won't actually talk much about LArSoft itself. That will come later. ;-)
- Disclaimer: Some of the things I say are not official – they're opinions or things I learned, sometimes the hard way.



Monkey Island Room

Lily Asquith
Charlie Batchelor
Federico Battisti
Thiago Bezerra
Shyam Bhuller
Juan Migel Carceller



Quake Room

Francisco Martinez Lopez
Isobel Mawby
Luis Mora
Raja Nadakumar
Vu Chi Lan Nguyen



Sim-City Room

Klaudia Wawrowska
Alex Wilkinson
Fergus Wilson
Karolina Wresilo
Kang Yang



Half-Life Room

Harry Scott
Jingyuan Shi
Toby Sowood
Sammy Valder
Abbey Waldron

Lemmings Room

Alexander Diesting
James Herd
Kunal Kotheekar
Robert Kralik
Praveen Kumar
Jiaoyang Li



Pokemon Room

Fraciso Javier Nicolas-Arnaldos
Niam Patel
Komninos-John Plows
Ishanee Pophale
Mousam Rai



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, larsoft light simulation, LArTPC reconstruction with pandora, debugging tutorial, analysis with larsoft, deep learning, and new this year: CAF files.
- 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]:
<http://t3-mw2.ph.ed.ac.uk/>
you should have received login instructions from Dom.
- You should be on the “larsoftworkshop2025” 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, Miquel 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.
 - Location: Tuk Tuk indian restaurant (BYOB).
 - Time: Wednesday at 7:30 pm
 - We are able to pay for the food, but not for the drinks.
 - More details to follow.

Big Thanks to:

- Rob Currie for setting up the computing infrastructure for us.
- Thelma and Angela 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.
- Holly, Elvis and others 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.