

Informations for the week (and beyond)

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(for the many people that make the LIP internship program possible)



LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS
partículas e tecnologia



LIP Summer Internships -- since 2017



LIP Summer Internship 2020

Welcome to the 2021 edition!

The agenda

Two or three lectures each morning, covering most topics of your projects

Tutorial chats just before lunch, ask all you ever wanted to know (about particle physics!), chat with LIP students and researchers

Hands-on tutorials in the afternoons: learn useful tools for your projects, and more...

All lectures and tutorials will be recorded

MONDAY, 5 JULY

09:30 → 12:00 Lectures: Introduction to particle physics and detectors

Introductory lectures

09:30

Introduction to Particle Physics

Speaker: Mário Pimenta (LIP)

11:00

Coffee break

11:15

Particle detectors

Speaker: Agostinho Gomes (LIP)

12:00 → 12:30 Tutorial chats

12:00

Instructions for the week

Speaker: Alexandre Lindote (LIP)

14:00 → 17:00 Tutorials: Day 1

Hands-on tutorials

14:00

Introduction to C++

Speakers: Alexandre Lindote (LIP), Ana Luisa Carvalho (LIP), Raul Sarmento (LIP)

14:00

ROOT basics

Speakers: Guilherme Pereira (LIP), Luis Coelho, Ricardo Barrué (LIP)

Instructions for the tutorials

- Two tutorials in parallel Monday - Wednesday, you have to choose one
 - Note that ROOT basics on Tuesday is a repetition of the Monday session!
- Zoom links for each tutorial will be posted in the agenda page
- Dedicated Slack channels where you can ask questions (or help!)
 - #c-tutorial
 - #root-basic-tutorial
 - #outreach-tutorial
 - ...
- For the C++ and ROOT tutorials you need access to the LIP machines (instructions [here](#)) or the ROOT docker container ([here](#))
 - Dedicated Slack channels for questions: #docker, #lip-machines
 - We will help at the start of the tutorials!



Mid-term Activities

Student Talk Competition

“You find your neighbour in the elevator - explain him what you are working on this summer!”

- In 5 minutes, explain your work in a clear manner. Be original and creative!
- Your colleagues will score the clarity and originality of your presentation.



Top three group talks announced at the final workshop.

Social Time

Competition followed by a social time, where you will get to know the other summer students, play online games and have fun!

More info and connection details:
<https://indico.lip.pt/event/938/>

Final workshop

- 13 and 14 September: <https://indico.lip.pt/event/936/>
- One talk from the students in each project summarizing the work and results
- More details will be announced during the program

Final papers

- Students are encouraged to write a final report in the form of a scientific paper
- These papers will be hosted in the LIP website with a unique reference
- You can use this reference and link in your CV
- List of papers from 2020 available [here](#)