

LIP Summer Internships - Lectures and Tutorials

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome to LIP and instructions

Tuesday, 4 June 2024 09:30 (30 minutes)

Presenter: ANDRINGA, Sofia (LIP)

Session Classification: Introduction to particle physics and detectors

Contribution ID: 2

Type: **not specified**

Introduction to Particle Physics

Tuesday, 4 June 2024 11:00 (1 hour)

Presenter: VARELA, João (LIP)

Session Classification: Introduction to particle physics and detectors

Contribution ID: 3

Type: **not specified**

Detectors

Tuesday, 4 June 2024 10:00 (30 minutes)

Presenter: BLANCO, Alberto (LIP)

Session Classification: Introduction to particle physics and detectors

Contribution ID: 5

Type: **not specified**

The internal structure of particles

Tuesday, 11 June 2024 09:30 (30 minutes)

Presenter: BIERNAT, Elmar

Session Classification: Particles and simulation

Contribution ID: 6

Type: **not specified**

QCD and heavy ion physics

Tuesday, 11 June 2024 10:00 (30 minutes)

Presenter: APOLINÁRIO, Liliansa (LIP)

Session Classification: Particles and simulation

Contribution ID: 8

Type: **not specified**

Simulations

Tuesday, 11 June 2024 11:00 (30 minutes)

Presenter: TOMÉ, Bernardo (LIP)

Session Classification: Particles and simulation

Contribution ID: 9

Type: **not specified**

Introduction to C++

Tuesday, 11 June 2024 14:00 (3 hours)

For those in Lisbon:

Room V0.03 (Alameda – Pavilhão de Civil), IST

Av. Rovisco Pais

1049-001 Lisboa

Presenters: JENKINS, Kai; SALTÃO, Sandro (LIP-Coimbra)

Session Classification: Tutorials

Contribution ID: 12

Type: **not specified**

Introduction to LHC physics

Tuesday, 18 June 2024 09:30 (30 minutes)

Presenter: LEONARDO, Nuno (LIP)

Session Classification: LHC and Machine Learning

Contribution ID: 13

Type: **not specified**

Probing the Standard Model and beyond at the LHC

Tuesday, 18 June 2024 10:00 (30 minutes)

Presenter: CASTRO, Nuno (LIP and University of Minho)

Session Classification: LHC and Machine Learning

Contribution ID: 14

Type: **not specified**

Machine learning in particle physics

Tuesday, 18 June 2024 11:00 (30 minutes)

Presenter: PEDRO, Rute (LIP)

Session Classification: LHC and Machine Learning

Contribution ID: 15

Type: **not specified**

Python tools in high-energy physics

Tuesday, 18 June 2024 14:00 (3 hours)

For those in Lisbon: Library (4th floor)

Presenter: BARROS, Maura

Session Classification: Tutorials

Contribution ID: **16**

Type: **not specified**

ROOT basics

Tuesday, 18 June 2024 14:00 (3 hours)

For those in Lisbon: LIP-ECO room (2nd floor)

Presenter: PEREIRA, Guilherme (LIP)

Session Classification: Tutorials

Contribution ID: 17

Type: **not specified**

Neutrinos

Tuesday, 25 June 2024 11:00 (30 minutes)

Presenter: LOZZA, Valentina (LIP)

Session Classification: Astroparticles, dark matter and neutrinos

Contribution ID: **18**

Type: **not specified**

Astroparticle Physics

Tuesday, 25 June 2024 09:30 (30 minutes)

Presenter: SARMENTO, Raul (LIP)

Session Classification: Astroparticles, dark matter and neutrinos

Contribution ID: **19**

Type: **not specified**

Dark matter

Tuesday, 25 June 2024 10:00 (30 minutes)

Presenter: BRÁS, Paulo (LIP)

Session Classification: Astroparticles, dark matter and neutrinos

Contribution ID: **20**

Type: **not specified**

Machine learning

Tuesday, 25 June 2024 14:00 (3 hours)

For those in Lisbon: Library (4th floor)

Presenters: SOUZA, Fernando; JORDÃO OLIVEIRA, Maria Gabriela (LIP-Minho and University of Minho)

Session Classification: Tutorials

Contribution ID: 21

Type: **not specified**

ROOT intermediate

Tuesday, 25 June 2024 14:00 (3 hours)

For those in Lisbon: LIP-ECO room (2nd floor)

Presenters: FERNANDES, Alexandra; NEVES, Francisco (LIP Coimbra)

Session Classification: Tutorials

Contribution ID: 22

Type: **not specified**

Dosimetry

Tuesday, 2 July 2024 09:30 (30 minutes)

Presenter: SAMPAIO, Jorge (LIP / FCUL)

Session Classification: Health and dosimetry

Contribution ID: 23

Type: **not specified**

Particles and health

Tuesday, 2 July 2024 10:00 (30 minutes)

Presenter: SIMÕES, Hugo (LIP Coimbra)

Session Classification: Health and dosimetry

Contribution ID: 26

Type: **not specified**

Data analysis and fitting with ROOT

Tuesday, 2 July 2024 14:00 (3 hours)

For those in Lisbon: Library (4th floor)

Presenters: BOLETTI, Alessio (LIP, Lisboa (PT)); SOARES, Guilherme (Universidade de Lisboa, IST (PT)); LEGOINHA, Henrique (IST/LIP)

Session Classification: Tutorials

Contribution ID: 27

Type: **not specified**

Simulation using TOPAS

Tuesday, 2 July 2024 14:00 (3 hours)

For those in Lisbon: Seminar Room (3rd floor)

Presenter: ANTUNES, Joana (LIP/FCUL)

Session Classification: Tutorials

Contribution ID: 28

Type: **not specified**

Radiation environment in space

Tuesday, 9 July 2024 11:00 (30 minutes)

Presenter: ARRUDA, Luísa (LIP)

Session Classification: Radiation in space and society

Contribution ID: 29

Type: **not specified**

Social Physics

Tuesday, 9 July 2024 11:30 (30 minutes)

Presenter: PERFEITO, Lilia (LIP)

Session Classification: Radiation in space and society

Contribution ID: **30**

Type: **not specified**

Science communication and writing

Tuesday, 9 July 2024 14:00 (1 hour)

Presenter: Dr TEUBIG, Pamela (LIP)

Session Classification: Tutorials