

LIP Summer Internship - Final Workshop

Report of Contributions

Contribution ID: 56

Type: **not specified**

Detectores gasosos R&D

Thursday 4 September 2025 10:20 (15 minutes)

Presenter: FERNANDO LOPES, JOÃO SIMÕES

Session Classification: I

Contribution ID: 58

Type: **not specified**

Study of new plastic scintillator materials for future detectors

Thursday 4 September 2025 10:40 (10 minutes)

Presenter: ANA MATIAS

Session Classification: I

Contribution ID: 59

Type: **not specified**

Characterization of sealed RPCs under strong irradiation source

Thursday 4 September 2025 10:55 (15 minutes)

Presenter: TELMO JUNIOR, JOANA PINTO, MÁRIO CARVALHO

Session Classification: I

Contribution ID: **60**

Type: **not specified**

Expanding the ATLAS Physics reach with anomaly detection at trigger level

Thursday 4 September 2025 14:20 (10 minutes)

Presenter: FERREIRA CARVALHO, Ana Rita

Session Classification: II

Contribution ID: **61**

Type: **not specified**

Searching for new physics phenomena in ATLAS data using machine learning

Friday 5 September 2025 14:55 (15 minutes)

Presenter: GABRIEL LOPES, FILIPE MARINHO, JOÃO PEDRO BARROS, CAROLINA SOBRAL

Session Classification: III

Contribution ID: 62

Type: **not specified**

Investigating the Flavour Anomalies with Machine Learning at LHC

Thursday 4 September 2025 14:35 (15 minutes)

Presenter: MARUJO, Gonalo

Session Classification: II

Contribution ID: 63

Type: **not specified**

Studying the Primordial Fluid with Deep Learning

Thursday 4 September 2025 14:55 (15 minutes)

Presenter: PINTO, Martim

Session Classification: II

Contribution ID: 65

Type: **not specified**

Study of quark hadronization at the LHC

Thursday 4 September 2025 12:25 (10 minutes)

Presenter: JINGHAO YE

Session Classification: III

Contribution ID: 67

Type: **not specified**

Hyperfine interactions in heavy quarkonia and heavy-light mesons

Thursday 4 September 2025 11:50 (15 minutes)

Presenter: MARIA MALÓ, VASCO VALVERDE

Session Classification: III

Contribution ID: 68

Type: **not specified**

Dressed quark mass function in the Covariant Spectator Theory

Friday 5 September 2025 15:15 (15 minutes)

Presenter: MARQUES, Rodrigo

Session Classification: III

Contribution ID: 69

Type: **not specified**

Upgrade of the ATLAS Tile Calorimeter High Voltage System

Friday 5 September 2025 15:30 (15 minutes)

Presenter: ANTUNES, Carolina

Session Classification: III

Contribution ID: 71

Type: **not specified**

Construção de um acelerador de partículas

Thursday 4 September 2025 14:00 (15 minutes)

Presenter: ARMADA, Ana

Session Classification: II

Contribution ID: 72

Type: **not specified**

Testing new detectors with muography

Friday 5 September 2025 10:10 (15 minutes)

Presenter: ZHOU, Yanhan

Session Classification: I

Contribution ID: 73

Type: **not specified**

Tracking muons from ongoing LHC collisions

Friday 5 September 2025 09:50 (15 minutes)

Presenter: TRISTAN BARLERIN, ALEXANDRE MENDOÇA

Session Classification: I

Contribution ID: 74

Type: **not specified**

Timing performance of the CMS Precision Proton Spectrometer in LHC Run3 data

Friday 5 September 2025 10:30 (10 minutes)

Presenter: GOMES, Sofia

Session Classification: I

Contribution ID: 75

Type: **not specified**

The nRPC-4D neutron detector: experimental study of its sensitivity to gamma rays

Friday 5 September 2025 10:45 (15 minutes)

Presenter: LUÍS JANUÁRIO, CHLOÉ BOIREL, MALO RUEL

Session Classification: I

Contribution ID: 76

Type: **not specified**

Hunting for kaons and Lambdas at AMBER

Friday 5 September 2025 09:30 (15 minutes)

Presenter: VERISSIMO, Jessica

Session Classification: I

Contribution ID: 77

Type: **not specified**

Production and characterization of cell-level passive dosimeters

Friday 5 September 2025 11:45 (10 minutes)

Presenter: LENTE, Gabriel Lente (Instituto Superior Técnico (IST))

Session Classification: II

Contribution ID: 78

Type: **not specified**

Metrology of the fibre optic arrays of a dosimeter for radiotherapy applications

Friday 5 September 2025 12:00 (10 minutes)

Presenter: RIBEIRO, Sara

Session Classification: II

Contribution ID: 79

Type: **not specified**

Measuring soil moisture using cosmic neutrons

Friday 5 September 2025 12:15 (10 minutes)

Presenter: SALVADOR VALE

Session Classification: II

Contribution ID: **80**

Type: **not specified**

Neutrino observatory for geosciences

Friday 5 September 2025 12:30 (15 minutes)

Presenter: CEGIELSKA, Joanna

Session Classification: II

Contribution ID: **81**

Type: **not specified**

Background analysis in recent SNO+ data

Friday 5 September 2025 12:45 (10 minutes)

Presenter: BALTAZAR, Tomás (IST)

Session Classification: II

Contribution ID: 82

Type: **not specified**

Detecção Directa de Matéria Escura com a Experiência LUX-ZEPLIN

Friday 5 September 2025 14:15 (15 minutes)

Presenter: ARTHUR BARREIRA, JOÃO SANTOS, FILIPE CABRITA

Session Classification: III

Contribution ID: 83

Type: **not specified**

À descoberta da natureza do neutrino: decaimento beta duplo sem neutrinos

Friday 5 September 2025 14:35 (15 minutes)

Presenter: MARIANA MENDES, JOÃO RODRIGUES, DANIEL MARMELO

Session Classification: III

Contribution ID: 84

Type: **not specified**

Improving Neutrino Detection at the Pierre Auger Observatory through Vertical Events

Thursday 4 September 2025 10:00 (15 minutes)

Presenter: BEATRIZ GONÇALVES, DAVID DIAS, Beatriz (Student)

Session Classification: I

Contribution ID: 85

Type: **not specified**

Calibração de um detetor do Observatório Pierre Auger

Thursday 4 September 2025 16:00 (15 minutes)

Presenter: MARIANA MACEDO, MIGUEL LACERDA, DIOGO VILLAÇA

Session Classification: IV

Contribution ID: 86

Type: **not specified**

Investigating Gamma/Hadron Discrimination Features to Augment Gamma-Ray Observatory Physics Capabilities

Thursday 4 September 2025 16:20 (10 minutes)

Presenter: AMARAL, Maria

Session Classification: IV

Contribution ID: 87

Type: **not specified**

Simulation of stellar explosions and stellar nucleosynthesis

Thursday 4 September 2025 16:35 (10 minutes)

Presenter: RODRIGUES, Leonor

Session Classification: IV

Contribution ID: **88**

Type: **not specified**

Study of quark hadronization at the LHC

Thursday 4 September 2025 12:10 (10 minutes)

Presenter: MANUEL BIDARRA

Session Classification: III