

Session Program

Sep 15 - 19, 2025



Unraveling the New Standard Model

Presentations and Discussion

Faculdade de Ciências da Universidade de Lisboa
Campo Grande 016, 1749-016 Lisboa

Mon, September 15

9:30 AM

Presentations and Discussion: Session 1

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

09:30 – 10:15

DM Relic Density at NLO QCD in the 2-→3 Channel

Speaker

Pavão Brica

10:15 – 11:00

Vector Dark Matter Model under Phenomenological Investigations

Speaker

Karim Elyauti

11:00 AM

11:30 AM

Presentations and Discussion: Session 2

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

11:30 – 12:15

RelExt - A New Code for Automatic Relic Density Calculations

Speaker

Rodrigo Capucha

12:15 – 13:00

Two-component scalar Dark Matter

Speaker

Maria Gonçalves

1:00 PM

Tue, September 16

9:00 AM

Presentations and Discussion: Session 3

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

09:00 – 09:45

New Physics Effects via Higgs Effective Field Theory

Speaker

Anisha .

09:45 – 10:30

Phenomenological aspects of the SMEFT in Higgs physics

Speaker

Stefano Di Noi

10:30 AM

11:00 AM

Presentations and Discussion: Session 4

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

11:00 – 11:45

Background Simulation of Higgs Pair Production in BSM Models

Speaker

Maurice Schüßler

11:45 – 12:30

Higgs mass predictions in the CP-violating high-scale NMSSM

Speaker

Christoph Borschensky

12:30 PM

Wed, September 17

9:00 AM

Presentations and Discussion: Session 5

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

09:00 – 09:45

Top-Yukawa-induced corrections to Higgs pair production

Speaker

Sauro Carlotti

09:45 – 10:30

The role of QCD corrections in the electron EDM

Speaker

Duarte Fontes

10:30 AM

11:00 AM

Presentations and Discussion: Session 6

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

11:00 – 11:45

Phase Transitions in Extensions of the SM

Speaker

Gabriel Lourenço

11:45 – 12:30

Charged Domain Walls in the 2HDM

Speaker

Daniel Neacsu

12:30 PM

Thu, September 18

9:00 AM

Presentations and Discussion: Session 7

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

09:00 – 09:45 **Improving thermal WIMPs**

Speaker

André Milagre

09:45 – 10:30 **Probing the early Universe with BSMPT v3**

Speaker

João Viana

10:30 AM

11:00 AM

Presentations and Discussion: Session 8

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

11:00 – 11:45 **NLO corrections to DM relic density in the CxSM**

Speaker

Pedro Gabriel

11:45 – 12:30 **Multi Singlet Scalar Dark Matter Extensions of the Standard Model**

Speaker

Tomás Trindade Henriques

12:30 PM

Fri, September 19

9:00 AM

Presentations and Discussion: Session 9

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

09:00 – 09:45

Searching for vector dark matter in a minimal model

Speaker

Guilherme Monsanto

09:45 – 10:30

Black holes and early universe phase transitions

Speaker

Jens Boos

10:30 AM

11:00 AM

Presentations and Discussion: Session 10

Session | **Location:** Faculdade de Ciências da Universidade de Lisboa, Campo Grande 016, 1749-016 Lisboa

11:00 – 11:45

Higgs Pair Production at Future Colliders

Speaker

Milada Margarete Mühlleitner

11:45 – 12:30

CP-violation and dark sectors

Speaker

Rui Santos

12:30 PM