



09:00 – Check-in

09:30 – Opening Session

10:00 – Academia 1

Rafael Esteves

The role of oxytocin in autistic traits: A pharmacogenetic-neuroimaging study

Cristiana Rodrigues

Development of Microdosimetric Detectors for Radiobiology in Hadron Therapy Facilities

Rodrigo Capucha

RelExt: A New Dark Matter Tool for the Exploration of Dark Matter Models

Henrique Miranda

The Birth of the Galaxy Main Sequence in the Young Universe

Rafael Almada

Healing Regimes in the Vertex Model

Tomás Alvim

Solute dispersion in confined active liquids

Rafael Rianço Silva

From Icy Moons to Hot Exoplanets: Bayesian Retrievals on Atmospheric Spectra

Diogo Quirino

Active Volcanism and the lost Oceans of Venus

Francisca Afonso

Cancer weapons against neurodegeneration

Muhammad Shaheer Mirza

Development of pathomics model for prostate cancer stratification

10:30 – Industry 1

Renova

Hovione

Complear

Microsoft

11:10 – Coffee Break

11:40 – Academia 2

Emanuele Bianchi

Self-Supervised Learning for Prostate Cancer Detection in Pre-Biopsy MRI

Caio Junior

NIBS techniques targeting Schizophrenia

David Pereira

Exploring and Understanding the Primordial Universe

Duarte Almeida

Open cluster dissolution: modelling their age and mass distributions

Joana Antunes

Modeling the Radiobiological Effects of Gold Nanoparticles in Proton Therapy of Glioblastomas

Catarina Pelicano

A Preliminary Study on the Impact of Model Complexity in Classification in Breast Microwave Imaging

João Dias

Measuring Isotopic Ratios on Venus' Dayside using iSHELL/IRTF Observations

Francisco Brasil

Atmospheric Gravity Waves on Mars: Morphology and Dynamics from HRSC/MEx imagery

Gabriel Lourenço

Phase transitions in extensions of the Standard Model

Nuno Gonçalves

The true power of rainbows

12:10 – Industry 2

Galp

CTT

Thyssen Krupp

12:40 – Academia 3

Duarte Saraiva

Novel 2D-Fast Fourier Transform Filtering Approach for Lung Ultrasound Imaging Segmentation: A preliminary study on Vertical Artifacts and Pleural Line

Henrique Lopes

Microwave Imaging for Breast Cancer Screening and Axillary Lymph Node Detection

Miguel Pinto

Gravitational wave propagation in modified gravity

João Viana

Can the electroweak phase transition produce gravitational waves?

José Ribeiro

Jovian upper clouds and hazes from visible and near infrared spectroscopy using CARMENES

Tiago Gonçalves

(Mo)defying gravity

João Mendes

AI predicts Breast Cancer three years in advance

13:00 – Lunch Break

14:30 – Industry 3

Mercedes-Benz.io

Corticeira Amorim

Critical Techworks

15:10 – Academia 4

Inês Leite

PoET: The Paranal solar ESPRESSO Telescope

Manuel Xarepe

Study of Short Range Correlations in asymmetric nuclei at R3B

Beatriz Sequeira-Antunes

Development of a urinalysis biochip system for continuous monitoring of health parameters integrated into a sanitary device.

Benedetta Canfora

Retrospective modeling of school-related COVID-19 transmission in the Netherlands and Portugal

Pedro Martins

Exploration of Powerful Active Galactic Nuclei

Davi Barbosa

A complete characterisation of Ultra Steep Spectrum radio sources in the COSMOS field

Ana Verde

Rad-Path Correlation of Deep Learning Models for Prostate Cancer Detection

Daniel Valente-Matias

Experimental realization of stochastic folding

João Neves

Mapping the discrete folding landscape

Vasco Braz

Caking as a percolation problem

16:00 – Closing Session

16:10 – Coffee Break

17:00 – End of Physics Day