

Session Program

27 June 2022 to 1 July 2022

FLASY 2022 - 9th Workshop on Flavour Symmetries and Consequences in Accelerators and Cosmology

Morning Session

Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre
Av. Rovisco Pais, 1 Lisbon

Monday 27 June

09:30

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Gustavo Branco

09:30–10:00

Overview of the three-neutrino oscillation picture

Speaker

Mariam Tórtola

10:30

10:00–10:30

Lepton flavor phenomena in modular symmetry

Speaker

MORIMITSU TANIMOTO

11:00

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Jorge Romão

11:00–11:30

Automorphic forms and fermion masses

Speaker

Ferruccio Feruglio

12:30

11:30–12:00

UV origin of modular flavor symmetries

Speaker

Michael Ratz

Tuesday 28 June

09:00

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Francisco Botella

09:30–10:00

Flavor-Changing Neutral Currents in the Higgs Sector

Speaker

Marc Sher

10:30

10:00–10:30

The Muon-Specific Model

Speaker

Pedro Ferreira

11:00

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Ferruccio Feruglio

11:00–11:30

Fermion Mass Hierarchies and Modulus Stabilisation in Modular-Invariant Models of Flavour

Speaker

Serguey Petcov

11:30–12:00

Precision of Model Predictions and Modular Flavor Symmetries

Speaker

Mu-Chun Chen

12:00–12:30

Modular Flavor Symmetries and CP from the top down

Speaker

Andreas Trautner

12:30

Wednesday 29 June

09:00

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Gustavo Burdman

09:00–09:30

On gauge and matter unification in composite Higgs models

Speaker

Sebastian Jaeger

09:30–10:00

Scotogenic A_5 to A_4 Dirac Neutrinos

Speaker

Ernest Ma

10:00–10:30

Flavour anomalies meet flavour symmetry

Speaker

Claudia Hagedorn

10:30

11:00

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Myriam Mondragón

11:00–11:30

Neutrino transition in dark matter

Speaker

Eung Jin Chun

11:30–12:00

Multi-component dark sectors: symmetries, asymmetries and conversions

Speaker

Juan Herrero Garcia

12:00–12:30

Neutrino phenomenology in the presence of light gauge bosons

Speaker

Eduardo Peinado

12:30

Thursday 30 June

09:00

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Stefan Antusch

09:00–09:30

Neutrino and Flavour Models, from the Planck Scale to the Electroweak Scale

Speaker

Steve King

09:30–10:00

Quantum-Gravitational Decoherence and the Number of Flavors in the Universe

Speaker

Heinrich Päs

10:00–10:30

Completing the Standard Model

Speaker

Jose W.F. Valle

10:30

11:00

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Ernest Ma

11:00–11:30

Progress in baryogenesis via neutrino oscillations

Speaker

Nuria Rius

11:30–12:00

VISHnu: flavour-variant DFSZ axion model for inflation, neutrino masses, dark matter and baryogenesis

Speaker

Raymond Volkas

12:00–12:30

Unconventional axions and ALPs

Speaker

Belen Gavela

12:30

Friday 1 July

08:55

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Morimitsu Tanimoto

09:00–09:30

Flavour seesaw and phenomenological consequences

Speaker

Manfred Lindner

09:30–10:00

Implications of the Zero 1-3 Flavour Mixing Hypothesis: Predictions for $\theta_{23}^{\text{PMNS}}$ and δ_{PMNS}

Speaker

Stefan Antusch

10:00–10:30

Momentum Dependence in Higgs Couplings from Physics Beyond the Standard Model

Speaker

Gustavo Burdman

10:30

11:00

Morning Session

Session | **Location:** Instituto Superior Técnico, Lisbon, Portugal, IST Congress Centre, Av. Rovisco Pais, 1 Lisbon | **Convener:** Manfred Lindner

11:00–11:30

Precision CEvNS

Speaker

Danny Marfatia

11:30–12:00

Coherent elastic neutrino-nucleus scattering in the Standard Model and beyond

Speaker

Valentina De Romeri

12:00–12:30

Double Beta Decay as a Probe of New Physics

Speaker

Frank F Deppisch

12:30