

COST WORKSHOP ON HIGGS AND FLAVOUR PHYSICS

Lisbon, 14-17 Jan. 2019

TIMETABLE

Monday, 14 January

8.00-9.15	Registration	
9.15-9.30	Opening	
	Speaker	Title
Chair person: Gustavo Branco		
9.30-10.00	Botella	General flavour conserving 2HDM
10.00-10.30	Lalak	Vacuum stability in quantum scale invariant extension of SM
10.30-11.00	COFFEE BREAK	
Chair person: Francisco Botella		
11.00-11.30	Branchina	Instability of the EW Vacuum: Protection Mechanisms
11.30-12.00	Kalinowski	WW scattering: a window beyond the SM
12.00-12.30	Kersten	The Price of Tiny Kinetic Mixing
12.30 – 14.00	LUNCH	
Chair person: Ricardo Felipe		
14.00 – 14.30	Antusch	Collider tests of low-scale seesaw models
14.30 – 15.00	Vicente	Master Majorana neutrino mass parametrization
15.00 – 15.30	Deppisch	Exotic Double Beta Decay Mechanisms
15.30 – 16.00	Di Bari	Leptogenesis and the flavour problem
16.00 – 16.30	COFFEE BREAK	
Chair person: Igor Ivanov		
16.30 – 16.50	Varzielas	Yukawa alignment in Multi-Higgs models from flavour symmetries
16.50 – 17.10	Delle Rose	A Composite 2-Higgs Doublet Model
17.10 – 17.30	Das	Evasive maneuvers for a sequential fourth generation to circumvent the Higgs data
17.30 – 17.50	Morais	Can the minimal B-L SM simultaneously explain the muon g-2 anomaly and allow light Z' bosons?
17.50 – 18.10	Kotlarski	(In)dependence of various LFV observables in the non-minimal SUSY
18.10 – 18.30	Ramos	Gravitational wave and collider probes of extended Higgs sectors with a low cutoff
19.00 – 21.00	RECEPTION at <i>Sala de Reuniões do Pavilhão Central</i> (IST main building)	

Tuesday, 15 January

Chair person: Pasquale Di Bari		
	Speaker	Title
9.00-9.30	Santos	Dark matter: scalars vs. vector
9.30-10.00	Lebedev	Pseudo-Goldstone Dark Matter through the Higgs Portal
10.00-10.30	Ferreira	CP in the dark
10.30-11.00	COFFEE BREAK	
Chair person: George Hou		
11.00-11.30	Olechowski	Weak scale from clockwork mechanism in heterotic M-theory
11.30-12.00	Shafi	Primordial Monopoles, Strings and Dark Matter in SO(10)
12.00-12.30	Vives	The flavour problem and supersymmetry after the LHC
12.30 – 14.00	LUNCH	
Chair person: Zygmunt Lalak		
14.00 – 14.30	Grzadkowski	Heavy scalar resonances in the alignment limit of the 2HDM
14.30 – 15.00	Robens	Constraining the Inert Doublet Model at the LHC and beyond
15.00 – 15.30	Gintner	The LHC limits on the mass and direct couplings of the BSM SU(2) _{L+R} vector resonance triplet
15.30 – 16.00	Aguilar-Saavedra	Elusive hadronic signals at the LHC
16.00 – 16.30	COFFEE BREAK	
Chair person: Ivo Varzielas		
16.30 – 17.00	Ioannisyan	Neutrino oscillations in matter
17.00 – 17.20	Fonseca	Non-renormalizable interactions of the Standard Model fields
17.20 – 17.40	Nebot	Spontaneous CP and Scalar FCNC in a 2HDM
17.40 – 18.00	Ivanov	Basis-invariant road to 3HDMs with symmetries
18.00 – 18.20	Mandal	A unified resolution to B anomalies with lepton mixing
18.20 – 18.40	Barreiros	Maximally-restricted texture Zeros in the minimal seesaw
18.40 – 19.00	Pereira	Seesaw type I with Sizeable Deviations from 3x3 Unitarity
19.00 – 19.20	Saturnino	Explaining the Flavour Anomalies with Leptoquarks

Wednesday, 16 January

Chair person: TBA		
	Speaker	Title
9.00 - 9.40	Rondio	Neutrinos - experimental status and prospects of oscillation measurements
9.40 - 10.10	Tórtola	Global overview on neutrino masses and mixings
10.10 - 10.30	Eberl	The W-boson contribution to the decays $H \rightarrow Z/\gamma + \gamma$ in the Standard Model revisited
10.30 - 11.00	COFFEE BREAK	
Chair person: Svjetlana Fajfer		
11.00 - 11.40	De Roeck	The European Strategy Update on Particle Physics 2019/2020
11.40 - 12.10	Muñoz	Overview of Higgs Physics results at ATLAS
12.10 - 12.40	Leonardo	CMS physics overview
12.40 - 14.00	LUNCH	
14.00 - 19.00	EXCURSION TO SINTRA	

Thursday, 17 January

Chair person: Mariam Tórtola		
	Speaker	Title
9.00 - 9.30	Trocsanyi	Super weak force and origin of neutrino masses
9.30 - 10.00	Hou	The Case for Extra Yukawa Couplings
10.00 - 10.30	Velasco-Sevilla	EDMs and Proton Decay in Super-GUT SU(5) theories
10.30 - 11.00	COFFEE BREAK	
Chair person: Are Raklev		
11.00 - 11.30	Fajfer	Scalar leptoquarks from GUT to accommodate the B-physics anomalies
11.30 - 12.00	Melic	Bc semileptonic decays as a probe of lepton flavor universality
12.00 - 12.30	Raidal	Multi-Higgs solution to the current flavour anomalies
12.30 - 14.00	LUNCH	
Chair person: Filipe Joaquim		
14.00 - 14.30	Raklev	BSM Global fits with GAMBIT
14.30 - 16.00	Kvellestad	GAMBIT tutorial
16.00 - 16.30	COFFEE BREAK	
Chair person: Jorge Romão		
16.30 - 17.00	Gavela	Axion and ALP couplings
17.00 - 17.30	Calibbi	Hadronic and leptonic flavour-violating decays into axion-like particles
17.30 - 18.00	Laenen	Effective operators in t-channel single top production and decay
18.00 - 18.30	Djouadi	Dark matter through the Higgs portal
20.00 -	SOCIAL DINNER AT "ORDEM DOS ENGENHEIROS"	

