

Workshop on the Standard Model and Beyond

2 -10 September 2017

Saturday Sept 2nd

10:00 - 14:00	REGISTRATIONS	
16:00 - 16:30	Opening	
16:30-17:00	A. Morselli (INFN)	Indirect dark-matter searches with gamma-rays experiments: status and future plans from 300 KeV to 100 TeV
17:00-17:30	V. Mitsou (Univ. of Valencia and CSIC)	MoEDAL experiment
17:30-18:00	N. Mavromatos (University of London)	Axion, Majorana Neutrino Masses and implications for the dark sector of the Universe
18:00 - 18:30	Coffee break	
18:30 - 19:00	P. Dimopoulos (Centro Fermi & U. di Roma "Tor Vergata")	Lattice check of dynamical fermion mass generation
19:00-19:30	C. S. Lim	Higgs boson decays and hierarchical quark masses in gauge-Higgs unification

Sunday Sept. 3rd

9:00 - 9:30	N. Antoniou (Athens U.)	Critical fluctuations in QCD matter
9:30 - 10:00	F. Diakonov (Athens U.)	Finite-size scaling and intermittency studies in crucial measurements for the QCD critical point
10:00 - 10:30	P. De Forcrand De Coiselet (Eidgenoessische Technische Hochschule Zuerich)	The QCD phase diagram from the lattice
10:30 - 11:00	F. Buccella (Naples U.)	Low Q^2 boundary conditions for DGLAP equations fixed by quantum statistical mechanics
11:00 - 11:30	Coffee break	
11:30 - 12:00	J. Kalinowski (Warsaw U.)	Maria Krawczyk memorial
12:00 - 12:30	G. Branco (TU Lisbon)	Generating light quark masses and mixing through vector-like quarks
12:30 - 13:00	L. Velasco-Sevilla (University of Bergen)	How Higgs physics can uncover the nature of flavour

13:00 – 13:30	P.-H. Beauchemin (Tufts U.)	Recent Standard Model results in ATLAS and CMS
13:30 - 16:00	Lunch break	
16:00 - 17:00	A. De Rujula (CSIC)	History and status of QCD
17:00 - 17:30	A. Di Domenico (Sapienza U. & INFN, Roma I)	CPT, entanglement and neutral kaons
17:30 – 18:00	F. Sannino (Syddansk U.)	Asymptotically Safe Standard Model: The Path Toward a Fundamental Theory of Nature
18:00 - 18:30	Coffee break	
18:30 - 19:00	G. Lazarides (AUTH)	Sterile Neutrinos, Dark Matter, and Resonances in ν si'MSSM
19:00 – 19:30	A. Dedes (University of Ioannina)	Feynman Rules for the SM Effective Field Theory in R_{χ}
19:15-19:30	C. Wang (Academia Sinica /Nanjing U.)	Search for ttH production in the 3 lepton final state at ATLAS
19:30 – 19:45	M. Giulia Ratti (U. of Milan and INFN)	Search for dark matter in the jet+missing transverse momentum topology with ATLAS

Monday Sept. 4th

9:00 – 10:00	A. De Roeck (CERN)	CMS overview talk
10:00 – 10:30	C. Diez Pardos (DESY)	Top physics in ATLAS and CMS
10:30 – 11:00	Y. Coadou (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))	Higgs (SM and BSM) in ATLAS and CMS
11:00 - 11:30	Coffee break	
11:30 - 12:00	Z. Lalak (Warsaw U.)	Standard Model effective action - domain walls and vacuum stability.
12:00 - 12:30	A. Romanino (SISSA)	General considerations on lepton mass matrices
12:30 – 13:00	M. Praszalowicz (Jagiellonian University)	On a possibility of baryonic exotica
13:00 – 13:30	M. Gazdzicki (Johann-Wolfgang-Goethe Univ.)	News on Onset of Deconfinement and Critical Point of Strongly Interaction Matter from NA61/SHINE
13:30 - 16:00	Lunch break	
16:00 - 17:00	G. Bruno (U. & INFN, Bari)	ALICE overview talk
17:00 - 17:30	A. Ali (DESY)	Multiquark Hadrons - Current Status and Future Directions
17:30 – 18:00	L. Iconomidou-Fayard (U. de Paris-Sud 11)	Physics Prospects for HL-LHC with the ATLAS detector

18:00 - 18:30	Coffee break	
18:30 - 18:45	O. Kivernyk (Centre National de la Recherche Scientifique)	Measurement of the W-boson mass at the ATLAS experiment
18:45 - 19:00	C. Galloni (U. Zuerich)	Search for new resonances decaying into two Higgs bosons or a W/Z and a Higgs boson at CMS
19:00 - 19:20	D. Giataganas (NCTS)	Confinement/Deconfinement Phase Transitions in Strongly Coupled Anisotropic Theories

Tuesday Sept.5th

9:00 - 09:45	M. Pepe - Altarelli (CERN)	Rare decays and searches for new physics at LHCb
9:45 - 10:30	N. Harnew (Oxford U.)	Measurements CP-violation and the unitarity triangle with LHCb
10:30 - 11:00	G. Degrassi (U degli Studi Roma Tre)	Probing the Higgs trilinear self coupling via single Higgs production and precision observable
11:00 - 11:30	Coffee break	
11:30 - 12:00	A. Pilaftsis (Manchester U)	On the Cosmological Frame Problem
12:00 - 12:30	F. Del Aguila (Granada U.)	Flavor violation in Higgs and gauge boson decays in the LHT
12:30 - 13:00	N. Mahmoudi (CERN)	Implications of flavour anomalies for new physics
13:00 - 13:30	A. Crivellin (PSI)	Explaining the flavour anomalies with New Physics
13:30 - 16:00	Lunch break	
16:00 - 16:30	R. Zwicky (Edinburgh U.)	A survey of Flavour Anomalies
16:30 - 17:00	S. King (U Southampton)	Flavourful Z' models for R_K and R_K*
17:00 - 17:30	F. Botella (Valencia U)	Controlled Flavour Changing Neutral Couplings in Two Higgs Doublet Models
17:30 - 18:00	B. Grzadkowski (Warsaw U.)	On the proper treatment of Breit-Wigner resonances in cosmology
20.30	Conference Dinner	

Wednesday Sept. 6th

9:30 - 10:00	P. Osland (U. of Bergen)	Spontaneous CP violation in Multi-Higgs Models. The S ₃ symmetric case
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10:00 – 10:30	O. Vives (Univ. of Valencia & CSIC)	Flavour in Supersymmetry after LHC
10:30 – 11:00	S. Pigazzini (U. & INFN, Milano-Bicocca (IT))	Recent Exotics and beyond the SM results in ATLAS and CMS
11:00 - 11:30	Coffee break	
11:30 - 12:00	M. Chala (IFIC)	Collider signals of models with radiatively-induced neutrino masses
12:00 - 12:30	K. R. Schmidt-Hoberg (DESY)	Revisiting fine-tuning in the MSSM
12:30 – 13:00	K. Choi (KAIST)	Hierarchical couplings and scales with generalized linear dilaton mode
13:00 – 13:30	H.M. Lee (CAU - Chung-Ang University)	Gauged U(1) clockwork
13:30 - 16:00	Lunch break	
16:00 - 16:30	G. Ross (U. of Oxford)	Weyl Current, Scale-Invariant Inflation and Planck Scale Generation
16:30 - 17:00	M. Raidal (National Inst. of Chemical Physics and Biophysics)	Dark Matter, Inflation and Primordial Black Holes
17:00 – 17:30	P. Ko (Korea Inst. for Advanced Study)	Dark gauge symmetries and dark matter-dark radiation interactions for the Hubble constant and the structure growth rate
17:30-18:00	C. Charmousis (Paris-Sud University)	Self tuning the cosmological constant
18:00 - 18:30	Coffee break	
18:30 - 18:45	P. Anastasopoulos (TU Wien)	Yukawas of light stringy states

Thursday 7th of September

9:00 – 10:00	E. Elsen (CERN)	Towards the Update of the European Strategy for Particle Physics
10:00 – 10:30	P. Roloff (CERN)	CLIC overview
10:30 – 11:00	A. De Roeck (CERN)	The Future Circular Colliders project
11:00 - 11:30	Coffee break	
11:30 - 12:00	G. Landsberg (Brown University)	Recent SUSY results at CMS
12:00 - 12:30	J. Mamuzic (IFIC Valencia)	Recent SUSY results in ATLAS

12:30 – 13:00	A. Pomarol (U. de Barcelona)	Light scalars: From the lattice to the LHC via holography
13:00 – 13:30	M. Quiros (ICREA)	A natural lepton flavour universality violation
13:30 - 16:00	Lunch break	
16:00 - 16:30	J. Bernabeu (Universidad de Valencia)	Resonant atom Majorana mixing
16:30 - 17:00	K. Benakli (CNRS)	A Minimal Model for Gravitino Dark Matter
17:00 – 17:30	O. D. Ogreid (Bergen College University)	Invariants and CP violation in the 2HDM and 3HD
17:30 - 18:00	G. Zanderighi (CERN)	The photon PDF
18:00 - 18:30	Coffee break	
18:30 - 19:00	D. Ghilencea (IFIN - HH)	SM with spontaneous breaking of quantum scale symmetry
19:00 – 19:30	J. Kalinowski (U. of Warsaw)	A light singlet at the LHC and DM
19:30 – 19:45	K. Ocalan (Middle East Technical U.)	Inclusive and differential vector boson (W, Z) measurements from CMS
19:45 – 20:00	A. De Maria (Georg-August-U. Goettingen)	Measurement of H->tautau in the semi leptonic final state using the ATLAS detector

Friday 8th of September

9:00 – 10:00	P. Wells (CERN)	ATLAS recent results and future prospects
10:00 – 10:30	O. Lebedev (University of Helsinki)	Higgs portal dark matter
10:30 – 11:00	G. Leontaris (Ioannina U.)	New Physics Phenomena From F-GUTs

11:00 – 17:00 EXCURSION

Saturday 9th of September

9:00 – 9:30	I. Antoniadis (LPTHE Paris & AEC Bern)	Scale hierarchies and string phenomenology
9:30 – 10:00	H. Nielsen (NBI)	The 3.5 keV line presumed from Dark Matte
10:00 – 10:30	M. Olechowski (Warsaw U.)	Spin-dependent constraints on neutralino dark matter in (N)MSSM
10:30 – 11:00	K. Meissner (Institute of Experimental Physics)	Conformal Standard Model
11:00 - 11:30	Coffee break	
11:30 - 12:00	M. Lola (University of Patras)	GUT symmetries, Dark Matter and the LHC

12:00 - 12:30	J. Kersten (University of Bergen)	Trilinear-Augmented Gaugino Mediation
12:30 - 13:00	N. Irges (NTUA)	Towards the effective action of Non-perturbative gauge-Higgs unification
13:00 - 13:30	M. Mondragon (U. Mexico)	TBC
13:30 - 16:00	Lunch break	
16:00 - 16:30	K. Nishiwaki (Korea Institute for Advanced Study)	Vector-like compositeness meets B-physics R_K^* anomaly
16:30 - 17:00	I. de Medeiros Varzielas (University of Lisbon)	Minima of multi-Higgs potentials with triplets of $\Delta(3n2)$ and $\Delta(6n2)$
17:00 - 17:30	V. Rekovic (University of Wisconsin-Madison)	LHC upgrade physics in CMS
17:30 - 18:00	A. Studenikin (Moscow State University)	Electromagnetic neutrinos: theory, experimental limits and phenomenology
18:00 - 18:30	Coffee break	
18:30 - 19:00	C.Pallis (University of Cyprus)	B-L Higgs Inflation in Supergravity with Several Consequences
19:00 - 19:30	R. Watanabe (University of Montreal)	Hidden sector explanation of B decay and cosmic ray anomalies
19:30 - 19:45	A. Lympers (Patras U.)	Sudden Future Singularities in Quintessence and Scalar-Tensor Quintessence Models

Sunday 10th of September

9:00 - 9:30	T. Hahn (MPI f. Physik)	Loopedia, a Database for Loop Integrals
9:30 - 10:00	E. J. Chun (Korea Institute for Advanced Study)	Baryogenesis and n - \bar{n} oscillation from R-parity violation
10:00 - 10:30	M. Nemevsek (Institute Jozef Stefan)	Hunting Majorana Higgses at colliders
10:30 - 11:00	T. Matsui (KIAS)	Gravitational waves from the first order electroweak phase transition in the Z_3 symmetric singlet scalar model

Closing!

