

HEP2012: Recent Developments in High Energy Physics and Cosmology

Ioannina, Greece , April 5-8 2012

<http://hep2012.physics.uoi.gr>

Thursday 5 April 2012

8:30-9:00	<i>Registration</i>	
9:00-9:15	<i>Opening</i>	
	<i>Morning session 1</i>	<i>Chair: C. Foudas</i>
9:15-9:45	K. Kousouris	Recent CMS results from 7 TeV proton-proton collisions at LHC
9:45-10:15	S. Palestini	Recent results from ATLAS
10:15-10:45	K. Nikolopoulos	Search for the Standard Model Higgs boson with the ATLAS experiment
	<i>Coffee break</i>	
	<i>Morning session 2</i>	<i>Chair: S. Abel</i>
11:15-11:45	C. Grojean	Fingerprinting Higgs Suspects at the LHC
11:45-12:15	C. Corianò	Dilaton Couplings from Graviton Couplings at the LHC
12:15-12:45	A. Lahanas	Dilaton Cosmology
12:45-13:15	N. Batakis	The Taub pp-wave string
	<i>Lunch break</i>	
	<i>Afternoon session 1</i>	<i>Chair: C. Kourkoumeli</i>
15:30-16:00	V. Mitsou	Probing supersymmetry with and without R-parity at the LHC
16:00-16:30	M. Koratzinos	LEP3: a low-cost Higgs factory
16:30-17:00	C. Karoumpis	Axion-Like Particles (ALPs) from the centre of Galaxy
	<i>Coffee break</i>	
	<i>Afternoon session 2</i>	<i>Chair: C. Corianò</i>
17:30-17:50	D. Giataganas	Probing Strongly Coupled anisotropic plasma
17:50-18:10	K. Siampos	Holographic baryon and its stability analysis
18:10-18:30	F. Farakos	Non-minimal Derivative Couplings in New-minimal N=1 Supergravity
18:30-18:50	N. Karagianakis	Phenomenology and Cosmology of the CMSSM with Yukawa Quasi-Unification
18:50-19:10	I. Dalianis	A natural solution to the gravitino overabundance problem

Friday 6 April 2012

Morning session 1

Chair: C. Grojean

9:00-9:30	S. Sarkar	Discovering Dark Matter
9:30-10:00	J. D. Vergados	Recent Developments in Neutrino Physics
10:00-10:30	N. Mavromatos	Neutrinos and the Early Universe
10:30-11:00	E. Kiritsis	Lorentz violation, gravity, dissipation and holography

Coffee break

Morning session 2

Chair: T. Alexopoulos

11:30-12:00	G. Vasileiadis	Recent Gamma Ray results from the HESS experiment and its cosmological implications
12:00-12:30	S. Tzamarias	Recent Developments in Neutrino Telescopy
12:30-13:00	G. Christodoulou	Current status and future prospects of long baseline neutrino oscillation experiments
13:00-13:30	I. Savvidis	Development of a spherical Proportional Counter for Low Energy Neutrino Detection via Coherent Scattering

Lunch break

Afternoon session 1

Chair: J. Rizos

15:30-16:00	N. Vlachos	Knitting Neutrino mass textures with or without Tri-Bi maximal mixing
16:00-16:30	V. Spanos	Dark Matter indirect searches in supersymmetry
16:30-17:00	I. Cholis	New results on Dark Matter annihilation using dwarf Spheroidal galaxies

Coffee break

Afternoon session 2

Chair: G. Tsipolitis

17:30-17:50	N. Tsirintanis	Search for high-mass states with one lepton plus missing transverse momentum using the ATLAS detector
17:50-18:10	A. Kourkouveli-Charalampidi	Search of Supersymmetry through the 3-lepton and large missing transverse momentum process with ATLAS detector
18:10-18:30	E. Ntomari	SUSY Searches in the Photon(s)+jets+MET final state in CMS, in pp collisions at $\sqrt{s}=7\text{TeV}$ with the Jet-Gamma Balance method
18:30-18:50	I. Nomidis	Heavy flavour production at ATLAS
18:50-19:10	S. Angelidakis	Search for the Higgs boson through the decay channel to $H \rightarrow ZZ^* \rightarrow l\bar{l}q\bar{q}$ with the ATLAS detector
19:10-19:30	G. Bourlis	Studies for the evaluation of the performance of the Time over Threshold technique for the digitalisation of the signal of the Very Large Volume Neutrino Telescope

Saturday 7 April 2012

Morning session 1

Chair: K. Skenderis

9:00-9:30 S. Abel Seiberg Duality vs. hidden local symmetry
9:30-10:00 M. Petropoulos Holographic fluids, vorticity and analogue gravity
10:00-10:30 G. Lazarides The Eta-Problem of SUSY Hybrid Inflation and Vector Backreaction

Coffee break

Morning session 2

Chair: T. Gernalis

11:00-11:30 A. Gardikiotis CAST : Recent results and Future outlook
11:30-12:00 E. Tzamariudaki Trigger issues for KM3NeT -the large scale underwater neutrino telescope
12:00-12:30 A. Tsirigotis Reconstruction efficiency and discovery potential of a very large volume Mediterranean neutrino telescope
12:30-13:00 T. Alexopoulos NTUA Group Activities
13:00-13:30 I. Papadopoulos WLCG Tier-2 GRID activities at the University of Ioannina

Lunch break

Afternoon session

Chair: G. Leontaris

15:30-16:00 C. Pallis Inflating with a Superheavy Higgs in a SUSY Pati-Salam Model
16:00-16:30 A. Chatzistavrakidis Matrix theory compactifications on twisted tori
16:30-17:00 J. Callaghan Model Building with F-Theory GUTs

17:00-20:00 *EESFYE General Assembly*

21:00 *Conference Dinner*

Sunday 8 April 2012

Morning session 1

Chair: G. Fanourakis

9:00-9:30

A. Loginov

The ATLAS upgrade program

9:30-10:00

T. Gerasis

A high eta (3-5) Micromegas tracker, to study hard WW→WW scattering with the CMS detector

10:00-10:30

G. Tsipolitis

The Muon ATLAS MicroMegas Activity

Coffee break

Morning session 2

Chair: K. Tamvakis

11:00-11:30

K. Skenderis

The holographic fluid dual to flat spacetime

11:30-12:00

N. Tetradis

Dynamical Classicalization

12:00-12:30

G. Zoupanos

Finite Unified Theories and the Higgs boson

12:30-13:00

E. Floratos

Topological Modification of Newton's Law

Lunch break

Afternoon session

Chair: P. Kanti

15:00-15:30

M. Taylor

Holographic d-wave superconductors

15:30-16:00

G. Kraniotis

Gravitational Lensing and superluminal effects by Kerr and Kerr-(nit) de Sitter black holes

16:00-16:30

C. Moustakidis

Nuclear Symmetry Energy effects on the r-mode instability of neutron stars

16:30-17:00

C. Tsagarakis

Multiscale perturbative approach to SU(2)-Higgs classical dynamics