

XXVIII Workshop on Recent Advances in Particle Physics and Cosmology

Scientific Program

Program also available on the web: <http://hep2010.physics.auth.gr>

Thursday March 25th 2010
(A31 Auditorium)

13:30 - 15:00	Registration
15:00 - 15:40	Semertzidis Yannis <i>Brookhaven National Laboratory</i> <i>"Progress and Current Status of the Proton EDM Experiment"</i>
15:40 - 16:10	Kokkotas Kostas <i>Aristotle University of Thessaloniki / University of Tuebingen</i> <i>"Current Status of Gravitational wave research"</i>
16:10 - 16:40	Vergados Ioannis <i>University of Ioannina</i> <i>"Neutrino oscillometry with neutrinos in a box"</i>
16:40 - 17:00	Paschos Emmanuel <i>Technical University of Dortmund</i> <i>"Neutrino Mixing and their Important Interactions"</i>
17:00 - 17:20	Coffee Break
17:20 - 17:50	Fanourakis George <i>Institute of Nuclear Physics, Demokritos</i> <i>"Micromegas principles, technology and applications"</i>
17:50 - 18:10	Savvidis Ilias <i>Aristotle University of Thessaloniki</i> <i>"Single Electron Detection with the Large Volume Spherical Proportional Counter"</i>
18:10 - 18:30	Papadopoulos, Ioannis <i>University of Ioannina</i> <i>"The Tier-3 GRID site at the UOI HEP Laboratory: a platform for CMS data analysis and trigger data monitoring"</i>
18:30 - 18:50	Moustakidis Charalampos <i>Aristotle University of Thessaloniki</i> <i>"The diurnal variation of the WIMP detection event rates in directional experiments"</i>
18:50 - 19:05	Vafeiadis Theodoros <i>Aristotle University of Thessaloniki</i> <i>"Status and prospects of the Micromegas Detector on the CAST experiment"</i>
19:05 - 19:20	Soukoulis Petros <i>Prisma Electronics SA</i> <i>"ACAPULCO powers converters for CERN"</i>
19:20 - 19:35	Chouliaras Athanasios <i>Aristotle University of Thessaloniki</i> <i>"Study of a Micromegas + GEM prototype for the ATLAS upgrade"</i>
19:35 - 19:50	Petridis Andreas <i>Aristotle University of Thessaloniki</i> <i>"Studies of Diboson Production $ZZ(*) \rightarrow 4l$ with the ATLAS Detector"</i>

Friday March 26th 2010
(A31 Auditorium)

- 09:00 - 09:40 Jenni Peter**
CERN
"The Large Hadron Collider Finally Entering Operation: an Overview of The LHC Programme"
- 09:40 - 10:20 Tselmelis Emmanuel**
CERN
"Future Colliders at CERN"
- 10:20 - 10:45 Nikolaidis Argyrios**
Aristotle University of Thessaloniki
"Living in extra dimensions "
- 10:45 - 11:00 Coffee Break**
- 11:00 - 11:40 Virdee Tejinder**
CERN
"The Detector, Physics program and Current status of the CMS experiment at LHC"
- 11:40 - 12:20 Lankford Andrew**
University of California
"ATLAS experiment"
- 12:20 - 12:40 Prokofiev Kirill**
CERN
"First physics results of the ATLAS experiment at the LHC."
- 12:40 - 13:05 Chouridou Sofia**
University of California Santa Cruz
"Performance of the ATLAS inner detector"
- 13:05 - 13:30 Kousouris Konstantinos**
Fermi National Accelerator Laboratory
"Jet commissioning studies in CMS with 900 GeV and 2.36 TeV collisions at LHC"
- 13:30 - 13:50 Kokkas Panagiotis**
University of Ioannina
"The ratio of three over two jet cross sections with CMS at LHC"
- 13:50 - 15:00 Lunch Break**
- 15:00 - 15:30 Foka Panagiota**
GSI/CERN
"First pp data and physics program of the ALICE experiment at the CERN LHC"
- 15:30 - 15:50 Christakoglou Panos**
NIKHEF - Utrecht University
"First identified particle studies at the CERN-LHC with the ALICE experiment"
- 15:50 - 16:10 Mitsou Vasiliki**
IFIC Valencia
"Performance of the ATLAS Inner Detector with First Data"
- 16:10 - 16:30 Coffee Break**
- 16:30 - 16:50 Vranjes Milosavljevic Marija**
Institute of Physics Belgrade
"SUSY search at ATLAS"

16:50 - 17:10	Papageorgiou Kostas University of Aegean <i>"Prospects of measuring high energy cosmic rays and neutrinos using radio antenna arrays"</i>
17:10 - 17:30	Vranjes Nenad Institute of Physics Belgrade <i>"Searches for new gauge bosons with the ATLAS detector"</i>
17:30 - 17:45	Karakostas Konstantinos Institute of Nuclear Physics, Demokritos <i>"Micromegas Telescope for RD51 Test Beams"</i>
17:45 - 18:00	Anastopoulos Christos University of Sheffield <i>"Performance of the ATLAS electromagnetic calorimeter for $\pi^0 \rightarrow \gamma\gamma$ and $\eta \rightarrow \gamma\gamma$ events"</i>
18:00 - 18:15	Lazaridis Christos University of Wisconsin-Madison <i>"Z Boson Production with the CMS Detector in pp Collisions at $\sqrt{s} = 7$ TeV"</i>
18:15 - 18:30	Break
18:30 - 20:00	CERN, a European "factory" for knowledge and technology", A.U.Th. contribution

**Saturday March 27th 2010
(A31 Auditorium)**

09:00 - 09:40	Antoniadis Ignatios CERN-TH <i>"Anomaly driven signatures of extra Dimensions"</i>
09:40 - 10:20	Mavromatos Nikolaos King's College London, University of London, Dept. of Physics <i>"Dark matter and stringy quantum gravity"</i>
10:20 - 10:50	Rizos Ioannis University of Ioannina <i>"Constructing heterotic superstring models free of massless fractional charge exotics"</i>
10:50 - 11:20	Gounaris Georgios Aristotle University of Thessaloniki <i>"Asymptotic Helicity Conservation in SUSY"</i>
11:20 - 11:40	Coffee Break
11:40 - 12:10	Tetradis Nikolaos University of Athens <i>"The temperature and entropy of CFT on time-dependent backgrounds"</i>
12:10 - 12:40	Leontaris George University of Ioannina / CERN <i>"Aspects of model building in F - Theory"</i>
12:40 - 13:10	Dedes Athanasios University of Ioannina <i>"The SUSY flavor code"</i>

- 13:10 - 13:40** **Zioutas Konstantin**
 University of Patras
"The inspiring CAST axion helioscope"
- 13:40 - 15:00** **Lunch Break**
- 15:00 - 15:30** **Floratos Emmanuel**
 University of Athens
"The Lorenz model for the onset of Turbulence and its Quantization"
- 15:30 - 16:00** **Zoupanos George**
 National Technical University of Athens
"Finite Unified Theories"
- 16:00 - 16:30** **Dimopoulos Konstantinos**
 Lancaster University
"A compelling realisation of the Vector Curvaton Paradigm and its distinct observational signatures"
- 16:30 - 16:50** **Coffee Break**
- 16:50 - 17:15** **Diamantis George**
 University of Athens
"The soft supersymmetry breaking in S_{1/Z_2} orbifolded, $N=2$, $D=5$ supergravity."
- 17:15 - 17:40**
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- 17:40 - 18:00** **Pallis Constantinos**
 Aristotle University of Thessaloniki
"Tracking Quintessence and Cosmic Ray Anomalies"
- 18:00 - 18:20** **Anastasopoulos Pascal**
 Ecole Normale Supérieure de Lyon
"On mass hierarchies in orientifold vacua"
- 18:20 - 18:35** **Chatzistavrakidis Athanasios**
 National Technical University of Athens
"Particle physics models from fuzzy extra dimensions"
- 18:35 - 18:50** **Mavrommatis Charalampos**
 Institute of Nuclear Physics, Demokritos
"Comparison of HELAC and MADEVENT generators on the $PP \rightarrow W+N$ jets process ($N=0,1\dots 4$)"
- 18:50 - 19:05** **Petrakou Eleni**
 Institute of Nuclear Physics, Demokritos
"Anomalous trilinear gauge couplings in the Z-gamma channel at the CMS experiment"
- 19:05 - 19:25** **Geralis Theodoros**
 Institute of Nuclear Physics, Demokritos
"A multipurpose Micromegas TPC: Design, Implementation and Results"
- 19:25 - 19:30** **Break**
- 19:30 - 21:00** **ΕΕΣΦΥΕ Meeting**

Sunday March 28th 2010
(A31 Auditorium)

- 09:00 - 09:30** **Savvidis Georgios**
Institute of Nuclear Physics, Demokritos
"Extension of the Standard Model and New Mechanism of Mass Generation"
- 09:30 - 10:00** **Tzamarias Spyros**
Hellenic Open University
"Particle Astrophysics and Neutrino Telescope"
- 10:00 - 10:20** **Tsirigotis Apostolos**
Hellenic Open University
"Evaluation of Very Large Volume Undersea Neutrino Telescope configurations using the HOU Reconstruction & Simulation (HOURS) package"
- 10:20 - 10:40** **Leisos Antonios**
Hellenic Open University
"The HELYCON detector array: Digitization Techniques and KM3NeT Calibration"
- 10:40 - 10:55** **Ntomari Eleni**
Institute of Nuclear Physics, Demokritos / National Technical University of Athens
"Data Analysis & Study of a Micromegas Detector in a neutron beam"
- 10:55 - 11:15** **Coffee Break**
- 11:15 - 11:35** **Barone Michele**
Institute of Nuclear Physics, Demokritos
"The contribution of the Greek Industry to the construction of high gradients particle accelerators for research (CLIC) and medical applications (CYCLINAC) at CERN"
- 11:35 - 11:50** **Kesisoglou Stilianos**
Institute of Nuclear Physics, Demokritos
"Measurement of the inclusive W and Z boson production cross sections with the CMS detector"
- 11:50 - 12:05** **Tziveloglou Pantelis**
Cornell / CERN
"Beyond the Supersymmetric Standard Model"
- 12:05 - 12:20** **Tsiakiris Menelaos**
NIKHEF
"Data-driven estimation of muon trigger efficiency using semi-leptonic top pair decays in ATLAS detector"
- 12:20 - 12:35** **Nomidis Ioannis**
Aristotle University of Thessaloniki
"Preparations for measurement of B+ production cross-section and lifetime in ATLAS with the first data"
- 12:35 - 12:50** **Manolakos Ioannis**
Institute of Nuclear Physics, Demokritos
"Energy Estimation in non-functioning Crystals of the Electromagnetic Calorimeter at CMS experiment"
- 12:50 - 13:05** **Kouskoura Vasiliki**
Aristotle University of Thessaloniki
"Muon performance with first data"
- 13:05 - 13:25** **Eleftheriadis Christos**
Aristotle University of Thessaloniki
"Cherenkov Telescope Array"
- 13:25 - 13:45** **Liolios Anastasios**
Aristotle University of Thessaloniki
"CAST – 10 Years"

END OF HEPXXVIII WORKSHOP