

**PLANCK 2015: From the Planck Scale to the Electroweak Scale
25-29 May 2015, Ioannina Greece**

"Karolos Papoulias" Conference Center
University of Ioannina

Monday 25 May 2015

Chair

09:00-09:30		Welcome	
09:30-10:00	Ellis, J.	Prospects for Higgs and Supersymmetry at LHC Run 2 and Beyond	
10:00-10:30	Saoulidou, N.	Recent results with CMS	Olive, K.
10:30-11:00	Kaplunovsky, V.	Deconstructing E0 SCFT to Solve the Orbifold Paradox	
11:00-11:30		Coffee Break	
11:30-12:00	Olive, K.	Supersymmetric Dark Matter after Run I at the LHC: From a TeV to a PeV	Sarkar, S.
12:00-12:30	Nanopoulos, D.	A No-Scale Inflationary Model to fit them all	
12:30-13:00	Quiros, M.	GMSB with light stops	

Lunch Break

15:00-15:30	Valle, J.	Neutrino landscape and the road to new physics	King, S.
15:30-16:00	Mavromatos, N.	Novel Scenarios for Neutrino Majorana Mass generation and Leptogenesis from Kalb-Ramond Torsion	
16:00-16:30	Sarkar, S.	Probing dark matter interactions with cosmic colliders	
16:30-17:00		Coffee Break	
17:00-17:30	Derendinger, J-P.	Currents in supersymmetric field theories	Zwirner, F.
17:30-18:00	Jones, T.	Quantum Gravity and Dimensional Transmutation	
18:00-18:30	Benakli, K.	Off-trail SUSY	

19:30-20:45 **Buffet Dinner at the Conference Center**
21:00-21:45 **Piano recital (Performer: Lambis Vasiliadis)**

Tuesday 26 May 2015

09:00-09:30	Antoniadis, I.	Moduli stabilization, de Sitter vacua and supersymmetry breaking	Quiros, M.
09:30-10:00	Zwirner, F.	Sgoldstino-less supergravity models of inflation	
10:00-10:30	Sagnotti, A.	String Theory clues for the low- l CMB	
10:30-11:00	Petropoulos, M.	Gravitational instantons, self-duality and N=2 superconformal theories	
11:00-11:30		Coffee Break	
11:30-12:00	King, S.	Unified Models of Neutrinos, Flavour and CP violation	Valle, J.
12:00-12:30	Oyama, Y.	Current Status of the T2K experiment	
12:30-13:00	Raby, S.	Unification after Run 1 at LHC	

Lunch Break

15:00-15:30	Marchesano, F.	Large field inflation scenarios from D-branes	Quevedo, F.
15:30-16:00	Lazarides, G.	Gravitational waves in Double Hybrid Inflation	
16:00-16:30	Shafi, Q.	Standard Model Inflation & Beyond	
16:30-17:00	Hosotani, Y.	Gauge-Higgs Grand Unification	
17:00-17:30		Coffee Break	
17:30-19:30		Parallel sessions A,B,C	

Parallel session A: Astro/Cosmo

17:00-17:25	Choi, K.-Y.	Dark matter with ultra compact mini halos	Dimopoulos, K.
17:25-17:50	Vergados, J.	Modulation, asymmetry and the diurnal variation in axionic dark matter searches	
17:50-18:10	Zaldivar, B.	SIMP dark matter at the LHC	
18:10-18:30	Petraki, K.	Self-interacting and asymmetric dark matter	
18:30-18:50	Nagata, N.	Dark Matter and Gauge Coupling Unification in Non-supersymmetric SO(10) Grand Unified Models	
18:50-19:05	Martin-Lozano, V.	Dark Matter phenomenology of intersecting D6-brane with a Stueckelberg portal	
19:05-19:20	Pouri, A.	Testing General Relativity on Cosmological scales	

Parallel session B: SUSY/Higgs

17:00-17:25	Vives, O.	METing SUSY on the Z peak	Balazs, C. or Ghilencea, D.
17:25-17:45	Parolini, A.	Anarchic Yukawas and top partial compositeness: the flavour of a successful marriage	
17:45-18:05	Gross, C.	A second Higgs from the Higgs portal	
18:05-18:25	Mitsou, V.	R-parity violating supersymmetry and neutrino physics: experimental signatures	
18:25-18:40	Lewicki, M.	Standard Model vacuum stability in the presence of gauge invariant nonrenormalizable operators	
18:40-18:55	Krajewski, T.	Naturalness of effective theories in Wilsonian approach	
18:55-19:10	Dillon, B.	Non-Custodial Warped Extra Dimensions at the LHC?	

Parallel session C: Unification/Formal/Flavour

17:00-17:25	Aulakh, C.	MSSM Higgs : Window into Susy GUTs	Baek, S.
17:25-17:45	Sessolo, E.M.	GUT-inspired SUSY and the muon $g-2$ anomaly: Prospects for LHC 14 TeV	
17:45-18:05	Eberhardt, O.	Fitting the two-loop renormalized Two-Higgs-Doublet model	
18:05-18:25	Baume, F.	On E_8 and F-Theory GUTs	
18:25-18:40	Meadowcroft, A.	Discrete Symmetries in F-theory models	
18:40-19:00	De Medeiros Varzielas, I.	Family symmetries and CP	

Wednesday 27 May 2015

09:00-09:30	Lüst, D.	Black Hole Formation and Classicalization in Ultra-Planckian Graviton	Nilles, H.-P.
09:30-10:00	Ibanez, L.	Higgs-otic Inflation and String Theory	
10:00-10:30	Quevedo, F.	Sequestered de Sitter String Scenarios and Soft SUSY Breaking	
10:30-11:00	Blumenhagen, R.	Large field inflation and string moduli stabilization	
11:00-11:30		Coffee Break	
11:30-12:00	Parsons, J.	Physics with ATLAS	Raby, S.
12:00-12:30	Angelantonj, C.	Radiative corrections in non-supersymmetric heterotic vacua	
12:30-13:00	Bachas, C.	Holography and Localization of Gravity	
13:30-16:30		Excursion: Dodona Ancient Theater	
17:00-19:30		Parallel sessions A,B,C	

Parallel session A: Astro/Cosmo

17:00-17:25	Dutta, K.	A relation between inflation and non-thermal history of the Universe	Petraki, K.
17:25-17:50	Dimopoulos, K.	Shaft Inflation	
17:50-18:10	Im, S.-H.	Diluting the inflationary axion fluctuation by a stronger QCD in the early Universe	
18:10-18:30	Kadota, K.	Particle cosmological probes on light dark matter	
18:30-18:50	Artymowski, M.	Inflation and DE from $f(R)$ gravity	
18:50-19:10	Zheng, B.	Classification of Non-Thermal Dark Matter Production Mechanisms	
19:10-19:25	Ahmed, A.	Higgs dark matter from warped extra-dimension	
19:25-19:40	Steppeler, P.	Interplay and scale dependence of neutralino (co)annihilation	

Parallel session B: SUSY/Higgs

17:00-17:25	Balazs, C.	Supersymmetry and naturalness
17:25-17:50	Moreno, J.	What is a Natural SUSY scenario?
17:50-18:10	Mariotti, A.	Signs of Tops from Highly Mixed Stops
18:10-18:30	Kyae, B.	Shifted Focus point from Minimal Mixed Mediation of SUSY breaking
18:30-18:50	Park, J.-H.	Large muon ($g-2$) from TeV-scale MSSM with infinite tan beta
18:50-19:05	Ellis, S.	G2-MSSM Phenomenology
19:05-19:20	Gomez-Ambrosio, R.	Effective Field theories and pseudo observables in the quest for physics beyond the standard model

Vives, O.

Parallel session C: Unification/Formal/Flavour

17:00-17:25	Stojkovic, D.	Unitary Evolution of Gravitational Collapse
17:25-17:50	Mohanty, S.	No-scale Supergravity based inflation models
17:50-18:15	Nardi, E.	The quark flavor problem and spontaneous breaking of flavour $SU(3)^3$
18:15-18:35	Andriot, D.	On (4+6)-dimensional SUSY vacua with geometric or non-geometric fluxes
18:35-18:55	Florakis, I.	Spontaneous supersymmetry breaking in string theory and corrections to Gauge couplings
18:55-19:15	Hewitt, M.	Thermal duality - nemesis of the black hole?
19:15-19:30	Gonzalo, T.	Flipped GUT Inflation
19:30-19:45	Pappas, N.	A Little Quantum Help for Cosmic Censorship and a Step Beyond All That

Kanti, P.

Thursday 28 May 2015

09:00-09:30	Cvetic, M.	Aspects of Abelian and Discrete Gauge Symmetries in F-Theory Compactifications
09:30-10:00	Nilles, H.P.	High scale inflation and low energy supersymmetry
10:00-10:30	Pepe Altarelli, M.	Recent Highlights from LHCb

Blumenhagen, R.

10:30-11:00	Dudas, E.	Inflation, scale of supersymmetry breaking and moduli stabilization	
11:00-11:30		Coffee Break	
11:30-12:00	Faraggi, A.	Spinor-vector duality and light Z' in heterotic string vacua	Abel, S.
12:00-12:30	Weigand, T.	Selection rules and discrete symmetries in F-theory	
12:30-13:00	Palti, E.	Discrete Symmetries and Torsion in F-Theory	

Lunch Break

15:00-15:30	Pokorski, S.	Signatures of supersymmetry with underabundance of neutralino dark	Pilaftsis, A.
15:30-16:00	Abel, S.	Towards a Phenomenology for the non-supersymmetric Heterotic String	
16:00-16:30	Roszkowski, L.	Dark matter: lessons from and for the early Universe	
16:30-17:00		Coffee Break	
17:00-19:30		Parallel sessions A,B,C	

Parallel session A: Astro/Cosmo

17:00-17:25	Saridakis, E.	$f(T)$ gravity and cosmology	Crivellin, A.
17:25-17:50	Liu, Z.	Multimediator models for the galactic center gamma ray excess	
17:50-18:10	Gorel, P.	Ton-scale Detector for Dark Matter with Liquid Argon: Current status of DEAP-3600	
18:10-18:30	Tziveloglou, P.	Indirect Searches Illuminate Singlet-Doublet Dark Matter	
18:30-18:50	Carmona, A.	Composite Dark Sectors	
18:50-19:10	Antipin, O.	Accidental Composite Dark Matter	
19:10-19:25	Szczerbiak, P.	Blind spots for neutralinos in NMSSM with light singlet scalar	

Parallel session B: SUSY/Higgs

17:00-17:25	Kong, O.	Holomorphic Supersymmetric Nambu--Jona-Lasinio Model for	Goudelis, A.
17:25-17:50	Corcella, G.	Searching for supersymmetry in Z' decays at the LHC	
17:50-18:10	De Blas, J.	Observable Effects of General New Scalar Particles	
18:10-18:30	Di Chiara, S.	Stability constraints in triplet extension of MSSM	
18:30-18:50	Sengupta, D.	Dilepton constraints in the Inert Doublet Model from Run 1 of the LHC	
18:50-19:05	Swiezewska, B.	Vacuum metastability in presence of heavy inert scalars	
19:05-19:20	Grilli di Cortona, G.	Searching SUSY from below	

Parallel session C: Unification/Formal/Flavour

17:00-17:20	Baron, W.	Uplifting Maximal Gauged Supergravities	Stojkovic, D.
17:20-17:40	Farakos, F.	Aspects of $R+R^2$ Supergravity	
17:40-18:00	Kahya, E.	Zeta-Zeta propagator: Is it time-dependent?	
18:00-18:15	Heurtier, L.	Challenges for Large-Field Inflation and Moduli Stabilization	
18:15-18:30	Mehta, V.	Free fermions and orbifolds	
18:30-18:45	Crispim Romao, M.	$SO(10)$ SUSY GUTs from M theory	
18:45-19:00	Fuksinska, O.	Particle production in the background with VEV depending on time	
19:00-19:20	Skliros, D.	TBA	

21:00

Conference Dinner
(Restaurant "Frontzou POLITIA" <http://www.frontzupolitia.gr/eng/>)

Friday 29 May 2015

09:00-09:30	Altarelli, G.	Neutrino Mixing 2015	Lahanas, A.
09:30-10:00	Pilaftsis, A.	Looking for New Naturally Aligned Higgs Doublets at the LHC	
10:00-10:30	Kim, J.E.	Towards unification of GUT families	
10:30-11:00	Kounnas, C.	Stringy N = 1 Super no Scale Models	
11:00-11:30		Coffee Break	
11:30-13:30		Parallel sessions A,B,C	
		Lunch and Cofee Break	
15:00-17:00		Parallel sessions A,B,C	
17:00-17:30	Raby, S.	Summary Talk	

Parallel session A: Astro/Cosmo

11:30-11:55	Spanos, V.	GravitinoPack and decays of supersymmetric metastable particles	Pallis, K.
11:55-12:15	Spray, A.	Semi-Annihilating Wino-Like Dark Matter	
12:15-12:35	Crivellin, A.	Effective Field Theory Approach to Dark Matter	
12:35-12:55	Serpico, P.	A loophole to the universal photon spectrum in electromagnetic cascades: applications to non-thermal primordial nucleosynthesis	
12:55-13:15	Zurita, J.	Bino / Higgsino searches at a 100 TeV collider	
15:00-15:20	Rubio, J.	Higgs inflation and vacuum stability	Spanos, V.
15:20-15:40	Pallis, K.	Observable Gravitational Waves From Kinetically Modified Non-Minimal Inflation	

15:40-15:55	Clarke, J.	How to avoid unnatural hierarchical thermal leptogenesis	
15:55-16:15	Dalianis, I.	Features and implications of the plateau inflationary potentials	
16:15-16:35	Kraniotis, G.	Gravitational lensing and frame dragging of light in the Kerr-Newman and the Kerr-Newman-(anti) de Sitter black hole spacetimes	
16:35-16:50	Cabrera Catalan, M. E.	Indirect and direct detection prospect for TeV dark matter in the MSSM-9	

Parallel session B: SUSY/Higgs

11:30-11:55	Goudzovski, E.	Search for the dark photon in π^0 decays	Flacke, T.
11:55-12:15	Bezrukov, F.	Higgs vacuum metastability and new physics, or should we care about top quark Yukawa and inflation	
12:15-12:35	Badziak, M.	Light Sparticles from a Light Singlet in Gauge Mediation	
12:35-12:55	Barnard, J.	The Unnatural Composite Higgs	
12:55-13:15	Goudelis, A.	The dark side of naturalness: Beyond the MSSM	
15:00-15:20	Flacke, T.	Search strategies for heavy quark partners at LHC run-II	Tziveloglou, P.
15:20-15:40	Shah, N.	Impersonating the SM Higgs Boson: Alignment independent of Decoupling	
15:40-16:00	Farzinnia, A.	Phenomenology of the Renormalizable Coloron Model	
16:00-16:20	Keus, V.	Stabilizing the Higgs potential with a Z'	
16:20-16:35	Sanz-Cillero, J.J.	One-loop corrections to the Higgs EW chiral Lagrangian	
16:35-16:50	Barducci D.	Uncovering Natural SUSY with the LHC and Dark Matter Direct Detection Experiments Interplay	

Parallel session C: Unification/Formal/Flavour

11:30-11:55	Baek, S.	Extended Ma model and two-zero neutrino texture	Vlachos, N.
11:55-12:15	Paraskevas, M.	Mass insertions vs. Mass eigenstates calculation in Flavour Physics	
12:15-12:35	Carcamo-Hernandez, A.	Fermion mass and mixing pattern in a minimal T7 flavor 331 model	
12:35-12:55	Suxho, K.	Rare top-quark decays to Higgs boson in the MSSM	
12:55-13:15	Kowalska, K.	SU(5) Yukawa matrix unification in the General Flavour Violating MSSM	
15:00-15:25	Vlachos, N.	Discrete Symmetries and neutrino mass matrices	Leontaris, G.
15:25-15:45	Kartavtzev, A.	Neutrino propagation in supernovae: flavor-, helicity-, and pair	
15:45-16:05	Neder, T.	Lepton Mixing Predictions from (Generalised) CP and Discrete Flavour Symmetry	
16:05-16:25	Aristizabal, D.	Two-loop induced neutrino masses: A model-independent perspective	

THE END