

## Wednesday 14 December

8:00-8:30	Pavel Winternitz	<i>Continuous symmetries of discrete equations: Lorentz and Galilei invariance on lattices</i>
8:30-9:00	Cosmas Zachos	<i>Ring-indexed Lie Algebras</i>
9:00-9:30	David B. Fairlie	<i>An Associative Algebra for Quasicrystals</i>
9:30-10:00	<i>coffee break</i>	
10:00-10:30	George Jorjadze	<i>Liouville theory: coherent states, S-matrix and vertex operators</i>
10:30-11:00	Alexios Polychronakos	<i>The noncommutative Chern-Simons action on the sphere and quantum Hall states</i>
11:00-11:30	Fernando Ruiz	<i>Position-dependent deformations and field theory</i>
11:30-12:00	O.W. Greenberg	<i>Microcausality in QFT on noncommutative spacetime</i>
12:00-12:30	Xavier Calmet	<i>Gravity on Noncommutative Spacetime</i>
12:30-1:00		
1:00-1:30	<i>lunch break</i>	
1:30-2:00		
2:00-2:30		
2:30-3:00	Eduardo Guendelman	<i>Strings, Branes with Dynamical Tension &amp; Weyl Invariant Light-like Branes in Black Hole and Higher Dimensional Physics</i>
3:00-3:30	Y. Jack Ng	<i>Probing spacetime foam with extragalactic sources</i>
3:30-4:00	Ralf Lehnert	<i>Broken spacetime symmetries</i>
4:00-4:30	George Savvidy	<i>Non-Abelian tensor gauge fields: Generalization of Yang-Mills theory</i>
4:30-5:00	O. A. Veliev	<i>Perturbation Theory for the Multidimensional Schrodinger Operator with a Periodic Potential</i>
5:00-5:30	<i>tea break</i>	
5:30-6:00	Yannick Meurice	<i>Large order behavior of series and global RG flows</i>
6:00-6:30	Rajamani Narayanan	<i>The low and high temperature phase of large N QCD</i>
6:30-7:00	George Siopsis	<i>M-theory and the Gross-Neveu model in 2+1 dimensions</i>
7:00-7:30	Milton Slaughter	<i>Second Class Currents and the <math>\Delta \rightarrow N \gamma</math> Electromagnetic Transition Form Factors</i>
7:30-8:00	Elias Okon Gurvich	<i>Generalized Quantum Relativistic Kinematics: A Stability Point of View</i>
8:00-8:30		
8:30-9:00	<i>free evening (what's left of it!)</i>	
9:00-9:30		

## Thursday 15 December

8:00-8:30	Elizabeth Jenkins	<i>Leptogenesis and Neutrino Physics</i>	
8:30-9:00	Xiao-Gang He	<i>Model of Geometric Neutrino Mixing and Leptogenesis</i>	
9:00-9:30	Arunansu Sil	<i>TeV Scale Leptogenesis, <math>\Theta(13)</math>, and Doubly Charged Particles at the LHC</i>	
9:30-10:00	<i>coffee break</i>		
10:00-10:30	Satya Nandi	<i>Unification of the gauge and Higgs couplings with extra dimensions</i>	
10:30-11:00	Cliff Burgess	<i>Supersymmetric Large Extra Dimensions</i>	
11:00-11:30	Abner Soffer	<i>Searches for New Physics at BaBar</i>	
11:30-12:00	Niels Tuning	<i>Search for New Physics with the LHCb detector</i>	
12:00-12:30	David Cline	<i>Prospects for the Discovery of Dark Matter WIMPS</i>	
12:30-1:00			
1:00-1:30	<i>lunch break</i>		
1:30-2:00			
2:00-2:30			
2:30-3:00	Qaisar Shafi	<i>Flipped SU(5) and <math>\delta T/T</math></i>	
3:00-3:30	Eric Braaten	<i>The X(3872) Files</i>	
3:30-4:00	Misak Sargsian	<i>Quark Hadron Transition in the Nuclear Medium</i>	
4:00-4:30	Thomas Appelquist	<i>Family Gauge Symmetry and Flavor Mixing</i>	
4:30-5:00	Charles B. Thorn	<i>One Loop QCD on the Lightcone Worldsheet</i>	
5:00-5:30	<i>tea break</i>		
5:30-6:00	<i>transportation to the colloquium</i>		
6:00-6:30	<i>and the reception on UM campus</i>		
6:30-7:00	Peter G O Freund	<i>Ideas of Space</i>	Storer Auditorium, U of Miami
7:00-7:30			
7:30-8:00	<i>reception</i>		Low Art Museum, U of Miami
8:00-8:30			
8:30-9:00			
9:00-9:30			

## Friday 16 December

8:00-8:30	Danny Marfatia	<i>Mass-varying neutrino oscillations, or Neutrino oscillation tests of neutrino dark energy</i>
8:30-9:00	Osamu Yasuda	<i>Exact formula of three flavor neutrino oscillation probability and its application to high energy astrophysical neutrinos</i>
9:00-9:30	Haim Goldberg	<i>Neutrino astronomy as a probe of quantum decoherence</i>
9:30-10:00	<i>coffee break</i>	
10:00-10:30	Stephan L. Mintz	<i>The Weak Production of <math>\Lambda</math> and <math>\Sigma^0</math> Hyperons in Antineutrino-Proton Scattering</i>
10:30-11:00	Jonathan M. Paley	<i>Hadron Production Cross-Section Measurements for Current and Future Neutrino Experiments</i>
11:00-11:30	Ali R. Fazely	<i>IceCube at the South Pole, Progress and Status</i>
11:30-12:00	Ina Sarcevic	<i>Probing the Physics Beyond the Standard Model with Supernova Neutrinos</i>
12:00-12:30		
12:30-1:00		
1:00-1:30	<i>lunch break</i>	
1:30-2:00		
2:00-2:30	Lisa L. Everett	<i>Cabibbo Haze in Lepton Mixing</i>
2:30-3:00	Carlos E. Yaguna	<i>Learning about SUSY and testing the seesaw with LFV</i>
3:00-3:30	John W Moffat	<i>Dark Matter, Dark Energy and the Cosmological Constant Problem</i>
3:30-4:00	Vincent Rodgers	<i>Can the Algebra of Diffeomorphisms Explain Dark Energy?</i>
4:00-4:30	<i>tea break</i>	
4:30-5:00	Ruth A. Daly	<i>The Acceleration of the Universe</i>
5:00-5:30	James N Fry	<i>Effects of Inhomogeneities on Cosmic Expansion</i>
5:30-6:00	Tom Kephart	<i>Density Perturbations in an Eccentric Universe</i>
6:00-6:30	John Ralston	<i>Testing the Symmetries of the CMB with Polarization Observables</i>
6:30-7:00	Joshua Gundersen	<i>CMB Polarization Experiments</i>
7:00-7:30		
7:30-8:00		
8:00-8:30	<i>cocktails and banquet</i>	
8:30-9:00		
9:00-9:30		

## Saturday 17 December

8:00-8:30	Tetsuyuki Yukawa	<i>Birth and Evolution of Simplicial Universe</i>
8:30-9:00	Ken-ji Hamada	<i>Primordial Spectrum From Background Free Quantum Gravity</i>
9:00-9:30	Hector de Vega	<i>Early Universe Cosmology and Fundamental Physics</i>
9:30-10:00	<i>coffee break</i>	
10:00-10:30	Alan Kostelecky	<i>Lorentz Violation, Neutrinos, and Gravity</i>
10:30-11:00	Patrick McDonald	<i>Probing Lorentz Symmetry with Bose-Einstein Condensates</i>
11:00-11:30	Ian Low	<i>Dynamical Breaking of Lorentz Symmetry</i>
11:30-12:00	Pran Nath	<i>A new <math>SO(10)</math> unification with a single spinor-vector Higgs</i>
12:00-12:30	Peter Minkowski	<i>On the apparent likeness of local gauges and their underlying physics</i>
12:30-1:00		
1:00-1:30	<i>lunch break</i>	
1:30-2:00		
2:00-2:30		
2:30-3:00	Stefano Bolognesi	<i>Multi-solitons and bag models</i>
3:00-3:30	Jaume Gomis	<i>Nonrelativistic Superstrings</i>
3:30-4:00	Eric Bergshoeff	<i>Ten-dimensional Supergravity revisited</i>
4:00-4:30	Norma G. Sanchez	<i>Conceptual unification of elementary particles, black holes, quantum de Sitter and Anti de Sitter string states</i>
4:30-5:00	Roman Buniy	<i>Entanglement entropy, black holes and holography</i>
5:00-5:30	Paul H. Frampton	<i>Conformality from Holography</i>
5:30-6:00		
6:00-6:30		
6:30-7:00		
7:00-7:30	<i>free evening</i>	
7:30-8:00		
8:00-8:30		
8:30-9:00		
9:00-9:30		

## Sunday 18 December

8:00-8:30	Ramon Lopez-Aleman	<i>Perturbative Evolution of orbits around Supermassive Black Holes with radiation reaction</i>
8:30-9:00	James Dent	<i>Hubble Era Cosmology of M-Theory Moduli</i>
9:00-9:30	Sumit R. Das	<i>Cosmological Singularities from Matrices</i>
9:30-10:00	<i>coffee break</i>	
10:00-10:30	David Berenstein	<i>Emergent gravity from SYM</i>
10:30-11:00	Stephen Pinsky	<i>Direct Evidence for the Maldacena Conjecture, for <math>N=(8,8)</math> SYM in <math>(1,1)</math></i>
11:00-11:30	Robert Myers	<i>AdS Inflation</i>
11:30-12:00	Ergin Sezgin	<i>Higher Spin Gauge Theory and AdS Cosmology</i>
12:00-12:30	Arkady Tseytlin	<i>Quantum corrections to string energies and AdS/CFT</i>
12:30-1:00		
1:00-1:30	<i>lunch break</i>	
1:30-2:00		
2:00-2:30		
2:30-3:00	Kellogg Stelle	<i>String corrections and special generalized holonomy</i>
3:00-3:30	Per Berglund	<i>Flux Compactifications, Non-Perturbative Superpotentials and String Duality</i>
3:30-4:00	Senarath (Shanta) de Alwis	<i>The Wave Function of the Universe and the Landscape of String Theory</i>
4:00-4:30	Lars Brink	<i>Two superfields in search of a theory</i>
4:30-5:00	<i>tea break</i>	
5:00-5:30	Francois Englert	<i>Extended gravity and the reconstruction of space-time</i>
5:30-6:00	Yuval Ne'eman	<i>"Total" Relativity, the Higgs Field and the Cosmological Expansion</i>
6:00-6:30		
6:30-7:00		
7:00-7:30	<i>free evening</i>	
7:30-8:00		
8:00-8:30		
8:30-9:00		
9:00-9:30		