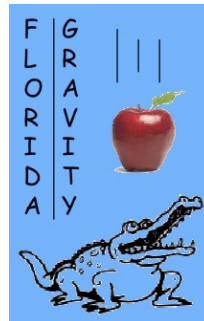


The 8<sup>th</sup> Gulf Coast Gravity Meeting  
February 27 - 28, 2015  
University of Florida, Gainesville  
New Physics Building, Room 2205



Supported in part by the Physics Department, the Institute for High Energy Particle Astrophysics, and the Institute for Fundamental Theory at the University of Florida, the LISA Symposium, and a Tourist Development Tax Grant from the Alachua County Board of County Commissioners in conjunction with the Alachua County Tourist Development Council.

**Final Program, 8th Gulf Coast Gravity Meeting  
New Physics Building Rm. 2205, University of Florida, Gainesville**

**Friday, 27 February**

9:00 AM	9:20 AM	Kevin Ingersent, Clifford Will		Welcome
9:20 AM	9:40 AM	Nelson Posada Aguirre	USC	Electrovacuum solutions to the Einstein-Maxwell system via the Ernst potentials
9:40 AM	10:00 AM	Changlong Wang	UF	Quantum Gravitational Corrections to Electromagnetism during Inflation
10:00 AM	10:20 AM	Jonathan Thompson	UF	Effective Source Methods for Second-Order Perturbations
10:20 AM	10:40 AM	Rui Xu	Indiana U	Nonrelativistic Gravity in the Standard-Model Extension
10:40 AM	11:00 AM	<b>Coffee Break</b>		
11:00 AM	11:20 AM	Kendall Ackley	UF	Transient Recovery Method using Zernike PSF
11:20 AM	11:40 AM	Atousa Chaharsough Shirazi	FAU	Decomposition for joint GW-EM analysis
11:40 AM	12:00 PM	Ilya Vilenskiy	FAU	"Proper" graviton propagator in spin foam formalism
				Proper vertex asymptotics and its use in the graviton propagator
12:00 PM	2:00 PM	<b>Lunch</b>		
2:00 PM	2:20 PM	Adam Aker	UT Dallas	Post-Newtonian Corrections to Dynamical Friction
2:20 PM	2:40 PM	Benjamin Cashen	UT Dallas	Effects of Dynamical Friction on Spinning Supermassive Black Holes
2:40 PM	3:00 PM	Xuping Wang	FAU	Parity in canonical loop quantum gravity
3:00 PM	3:20 PM	Hector Okada da Silva	U Mississippi	A post-TOV formalism for relativistic stars
3:20 PM	3:40 PM	<b>Coffee Break</b>		
3:40 PM	4:00 PM	Marissa Walker	LSU	Characterization of the Instrumental Background of Advanced LIGO's Gravitational Wave Burst Search
4:00 PM	4:20 PM	Andy Chilton	UF	A New Optical Bench Concept for Space-Based Laser Interferometric Gravitational Wave Missions
4:20 PM	4:40 PM	Hector Chen	UF	Gravitational Self-Force Techniques and Second Order Prospects
4:40 PM	5:00 PM	Christopher Beetle	FAU	A cosmological sector of loop quantum gravity: Overview and symmetry conditions
5:00 PM	7:00 PM	<b>Dinner</b>		<b>See Gainesville Restaurant Guide</b>
7:00 PM	10:00 PM	<b>ArtWalk Gainesville</b>		<b>Downtown Gainesville. See Brochure for details</b>

**Saturday, 28 February**

9:00 AM	9:20 AM	Michael Kesden	UT Dallas	Effective potentials and morphological transitions for binary black-hole spin precession
9:20 AM	9:40 AM	Shannon Ray	FAU	Simplicial Ricci flow and guided optimization for isometric embeddings of 2-surfaces in Euclidean 3-space
9:40 AM	10:00 AM	Nilanjan Banik	UF	Study of vortices in Axion BEC dark matter
10:00 AM	10:20 AM	Stephen Apple	UF	LISA technology development using the UF precision torsion pendulum
10:20 AM	10:40 AM	Taiwo Olatunde	UF	UV-LED-based charge control for LISA
10:40 AM	11:00 AM	<b>Coffee Break</b>		
11:00 AM	11:20 AM	Steven Hochman	UF	Studying the Perturbed Einstein Equation
11:20 AM	11:40 AM	Daniel Brooker	UF	Precision Predictions for the Primordial Power Spectra in Arbitrary Histories
11:40 AM	12:00 PM	Matthew Hogan	FAU	Dynamical cosmological sector in loop quantum gravity
12:00 PM	12:20 PM	Phillip Mendonca	FAU	Use of Symmetry Constraints to Embed FLRW Cosmology into Bianchi I
12:20 PM	2:00 PM	<b>Lunch</b>		
2:00 PM	2:20 PM	Benjamin Owen	Texas Tech	Cas A and friends: directed searches for continuous gravitational waves from isolated neutron stars
2:20 PM	2:40 PM	Adam Christopherson	UF	Newtonian perturbation theory from the Schroedinger-Poisson equations
2:40 PM	3:00 PM	Rory Conboye	FAU	Extrinsic Curvature in Regge Calculus
3:00 PM	3:20 PM	Chris Vuille	Embry-Riddle	Geometry from probability: a possible origin of dark energy or the inflaton
3:20 PM	3:40 PM	<b>Coffee Break</b>		
3:40 PM	4:00 PM	Roman Sverdlov	U Mississippi	How replacing points with edges addresses locality problems in a causal set
4:00 PM	4:20 PM	Edward Green	U North Georgia	Conservative Transformation Group: Dark Matter Halos and Solar System Dynamics
4:20 PM	4:40 PM	Antonio Colella	IBM	A New Cosmology Theory: An Integrated Theory of Everything
4:40 PM	5:00 PM	Clifford Will	UF	The Centennial of Einstein's Three Crucial Tests
5:00 PM	7:00 PM	<b>Dinner</b>		<b>See Gainesville Restaurant Guide</b>