

24th PACIFIC COAST GRAVITY MEETING

University of California, Santa Barbara
March 21st-22nd, 2008

Schedule

Friday, March 21st

Morning session			
8:50 - 9:00	Don Marolf	11:00 - 12:25	Alan Weinstein
	Opening Remarks		Status of LIGO
9:00 - 10:25	Eric Bahr		Antony Searle
	New Search for Spin-Gravity interaction		Detecting poorly understood sources with LIGO
	Dinesh Singh		Pinkesh Patel
	Potential evidence for noncommutative geometry in muon decay		Using baryocentric-resampling for continuous gravitational wave searches
	Stephen Minter		Ilya Mandel
	Production and detection of gravitational radiation by means of a two-body superconducting system		Extracting extreme-mass-ratio inspirals from LISA data via time-frequency methods
	Quentin Bailey		Sasha Buchman
	Recent gravitational Lorentz-symmetry		GP-B and LISA
	Gantumur Tsogtgerel		John Whelan
	Solutions to Einstein's constraint equations on manifolds with boundary		F-statistic searches for white dwarf binaries: the mosk LISA data challenges
			Curt Cutler
			LISA detections of MBHBs: parameter extraction errors due to inaccurate templates
			Lars Bildstein
			Detecting gravitational wave emission from accreting neutron stars

Afternoon session

14:10 - 15:45	<p>Roman Sverdlov</p> <p>Bosonic fields and their Lagrangian in causal set theories</p>	16:15 - 17:50	<p>Steven Drasco</p> <p>Verifying Black Hole orbits with gravitational wave observations</p>
	<p>Andreas Tziolas</p> <p>Colliding branes and formation of spacetime singularities</p>		<p>Gabe Perez-Giz</p> <p>A periodic table for black hole orbits</p>
	<p>Ruslan Vaulin</p> <p>Approximating stress energy tensor of quantum conformal matter field in Reissner-Nordstrom spacetimes</p>		<p>Kim Dong-Hoon</p> <p>Calculation of the self-force in Kerr spacetime: in the weak-field and slow-rotation limit</p>
	<p>James Alsup</p> <p>Bjorken flow from an ADS Schwarzschild Black Hole</p>		<p>Keith Matthews</p> <p>Hyperbolic gauge conditions for the generalized harmonic system</p>
	<p>Jim Isenberg</p> <p>Critical behavior in Ricci Flow</p>		<p>Bela Szilagy</p> <p>Boundary conditions for the gauge degrees of freedom in a generalized harmonic evolution system</p>
	<p>Tony Chu</p> <p>Numerical simulations of strongly perturbed Kerr Black Holes</p>		<p>Gian Mario Manca</p> <p>Gravitational Waves: Computational geometry approach to the template bank placement problem</p>
	<p>Jeandrew Brink</p> <p>Mapping spacetime - checking for the fourth invariant</p>		<p>Anand Sengupta</p> <p>Search for gravitational waves from inspiralling high-mass (non-spinning) compact binaries</p>

Saturday, March 22nd

Morning session			
9:00 - 10:35	Timothy Classen	11:10 - 12:35	Aaron Amsel
	The LUX dark matter detector		The physical process first law for bifurcate Killing horizons
	Tyler Lemmon		Sean Hartnoll
	Relativistic corrections to Keplerian orbits: A physical approach		The hairy ads/cft superconductor
	Michael Cohen		Geoffrey Compere
	Evaluating event horizon finding techniques		Release of the boundary metric in AdS/CFT
	Michael Holst		Jorge Rocha
	Far from constant mean curvature solutions of the Einstein constraint equations		Large Black Holes in ADS and the Black Hole information paradox
Kari Hodge	Joao Penedones		
Using a random forest to rank-order potential gravitational-wave events	Black Hole formation in ADS/CFT		
Albert Roura	Matthew Roberts		
Quantum horizon fluctuations of evaporating black holes	Counting the Microstates of a Kerr Black Hole		
Jonas Mureika			
Tev-Scale Unparticle-Enhanced Black Holes			

Afternoon session

14:10 - 15:45	<p style="text-align: center;"><u>Diego Fazi</u></p> <p style="text-align: center;">Searching for gravitational waves from spinning binaries in LIGO data using a physical template family</p>	16:15 - 17:50	<p style="text-align: center;"><u>Yanbei Chen</u></p> <p style="text-align: center;">Probing macroscopic quantum mechanics with LIGO</p>
	<p style="text-align: center;"><u>Joseph Betzweiser</u></p> <p style="text-align: center;">Beating the spin-down limit on the Crab pulsar</p>		<p style="text-align: center;"><u>Marc Favata</u></p> <p style="text-align: center;">Gravitational Wave Memory Revisited</p>
	<p style="text-align: center;"><u>Mike Boyle</u></p> <p style="text-align: center;">Extrapolating gravitational radiation from numerical simulations</p>		<p style="text-align: center;"><u>Yasushi Mino</u></p> <p style="text-align: center;">Adiabatic expansion of the scalar field</p>
	<p style="text-align: center;"><u>Ari Stern</u></p> <p style="text-align: center;">Discrete differential forms for numerical relativity</p>		<p style="text-align: center;">Mark Miller</p> <p style="text-align: center;">Accuracy assessment of binary neutron stars initial data constructed using high-order adaptive mesh refinement techniques</p>
	<p style="text-align: center;"><u>Lucia Santamaria</u></p> <p style="text-align: center;">Incorporating numerical relativity waveforms into gravitational wave data analysis</p>		<p style="text-align: center;">Mark Scheel</p> <p style="text-align: center;">Binary black hole mergers using spectral methods</p>
	<p style="text-align: center;"><u>Rafael A. Porto</u></p> <p style="text-align: center;">EFT meets GR at PN: Or who is afraid of Mr Feynman</p>		<p style="text-align: center;">Lee Lindblom</p> <p style="text-align: center;">Testing Post-Newtonian Waveforms with Numerical Relativity</p>
	<p style="text-align: center;"><u>Delphine Perrodin</u></p> <p style="text-align: center;">Effective field theory of gravitational radiation</p>		