

24th PACIFIC COAST GRAVITY MEETING

University of California, Santa Barbara

March 21st-22nd, 2008

Schedule

Friday, March 21st

Morning session				
8:50 - 9:00	<p>Don Marolf</p> <p>Opening Remarks</p>	11:00 - 12:25	<p>Alan Weinstein</p> <p>Status of LIGO</p>	
9:00 - 10:25	<p>Eric Bahr <small>Undergrad student</small></p> <p>New Search for Spin-Gravity interaction</p>		<p>Antony Searle <small>Post-doc (3)</small></p> <p>Detecting poorly understood sources with LIGO</p>	
	<p>Dinesh Singh <small>Post-doc</small></p> <p>Potential evidence for noncommutative geometry in muon decay</p>		<p>Pinkesh Patel <small>Ph.D. student</small></p> <p>Using baryocentric-resampling for continuous gravitational wave searches</p>	
	<p>Stephen Minter <small>Ph.D. student</small></p> <p>Production and detection of gravitational radiation by means of a two-body superconducting system</p>		<p>Ilya Mandel <small>Post-doc</small></p> <p>Extracting extreme-mass-ratio inspirals from LISA data via time-frequency methods</p>	
	<p>Quentin Bailey <small>*(3)</small></p> <p>Recent gravitational Lorentz-symmetry</p>		<p>Sasha Buchman</p> <p>GP-B and LISA</p>	
	<p>Gantumur Tsogtgerel <small>Post-doc</small></p> <p>Solutions to Einstein's constraint equations on manifolds with boundary</p>		<p>John Whelan</p> <p>F-statistic searches for white dwarf binaries: the most LISA data challenges</p>	
				<p>Curt Cutler</p> <p>LISA detections of MBHBs: parameter extraction errors due to inaccurate templates</p>
				<p>Lars Bildstein</p> <p>Detecting gravitational wave emission from accreting neutron stars</p>

Afternoon session

14:10 - 15:45

Roman Sverdlov

Ph.D. student

Bosonic fields and their Lagrangian in causal set theories

Andreas Tziolas

Ph.D. student

Colliding branes and formation of spacetime singularities

Ruslan Vaulin

Post-doc

Approximating stress energy tensor of quantum conformal matter field in Reissner-Nordstrom spacetimes

James Alsup

Ph.D. student

Bjorken flow from an ADS Schwarzschild Black Hole

Jim Isenberg

Critical behavior in Ricci Flow

Tony Chu

Ph.D. student

Numerical simulations of strongly perturbed Kerr Black Holes

Jeandrew Brink

Post-doc

Mapping spacetime - checking for the fourth invariant

16:15 - 17:50

Steven Drasco

Post-doc

Verifying Black Hole orbits with gravitational wave observations

Gabe Perez-Giz

Ph.D. student

A periodic table for black hole orbits

Kim Dong-Hoon

Post-doc

Calculation of the self-force in Kerr spacetime: in the weak-field and slow-rotation limit

Keith Matthews

Ph.D. student, 3

Hyperbolic gauge conditions for the generalized harmonic system

Bela Szilagy

Post-doc

Boundary conditions for the gauge degrees of freedom in a generalized harmonic evolution system

Gian Mario Manca

Post-doc

Gravitational Waves: Computational geometry approach to the template bank placement problem

Anand Sengupta

Post-doc

Search for gravitational waves from inspiralling high-mass (non-spinning) compact binaries

Saturday, March 22nd

Morning session			
9:00 - 10:35	Timothy Classen	11:10 - 12:35	Aaron Amsel <small>Ph.D. student</small>
	The LUX dark matter detector		The physical process first law for bifurcate Killing horizons
	Tyler Lemmon <small>Undergrad</small>		Sean Hartnoll <small>Post-doc</small>
	Relativistic corrections to Keplerian orbits: A physical approach		The hairy ads/cft superconductor
	Michael Cohen <small>Ph.D. student</small>		Geoffrey Compere <small>Post-doc</small>
	Evaluating event horizon finding techniques		Release of the boundary metric in AdS/CFT
	Michael Holst		Jorge Rocha <small>Ph.D. student</small>
	Far from constant mean curvature solutions of the Einstein constraint equations		Large Black Holes in ADS and the Black Hole information paradox
Kari Hodge <small>Ph.D. student</small>	Joao Penedones <small>Post-doc</small>		
Using a random forest to rank-order potential gravitational-wave events	Black Hole formation in ADS/CFT		
Albert Roura <small>Post-doc</small>	Matthew Roberts <small>Ph.D. student</small>		
Quantum horizon fluctuations of evaporating black holes	Counting the Microstates of a Kerr Black Hole		
Jonas Mureika <small>*(3)</small>			
Tev-Scale Unparticle-Enhanced Black Holes			

Afternoon session

<p>14:10 - 15:45</p>	<p>Diego Fazi Ph.D. student Searching for gravitational waves from spinning binaries in LIGO data using a physical template family</p>	<p>16:15 - 17:50</p>	<p>Mike Boyle Ph.D. student Extrapolating gravitational radiation from numerical simulations</p>
	<p>Joseph Betzweiser Post-doc Beating the spin-down limit on the Crab pulsar</p>		<p>Ari Stern Ph.D. student Discrete differential forms for numerical relativity</p>
	<p>Yanbei Chen Probing macroscopic quantum mechanics with LIGO</p>		<p>Lucia Santamaria Ph.D. student Incorporating numerical relativity waveforms into gravitational wave data analysis</p>
	<p>Marc Favata Post-doc, 3 Gravitational Wave Memory Revisited</p>		<p>Mark Miller *(3) Accuracy assessment of binary neutron stars initial data constructed using high-order adaptive mesh refinement techniques</p>
	<p>Rafael A. Porto Post-doc EFT meets GR at PN: Or who is afraid of Mr Feynman</p>		<p>Mark Scheel *(own laptop) Binary black hole mergers using spectral methods</p>
	<p>Delphine Perrodin Ph.D. student Effective field theory of gravitational radiation</p>		<p>Lee Lindblom *(3) Using numerical relativity to test Post-Newtonian waveforms</p>
	<p>Yasushi Mino Post-doc Adiabatic expansion of the scalar field</p>		