UNIVERSITY OF OREGON

25th Pacific Coast Gravity Meeting

University of Oregon
Eugene, Oregon
27-28 March 2009

PCGM25 PROGRAM

Each speaker will be alloted a maximum of 12 minutes for setup + the talk itself + questions and answers. Plan to limit your talk to no more than 10 minutes to allow time for setup and a question or two.

Speakers using computer generated talks, please have any files you need for your talk uploaded to the common presentation computer in advance. Send your file (or a link to your file) to rayfrey{at}uoregon{dot}edu or have it available before your session on a thumb drive. Blackboards, chalk, and overhead transparancy projectors are also available.

Friday, March 27, 2009

Session I (Chair: Tevian Dray)

Name	Organization	Talk	Begin	End	Student
		Breakfast and Registration	8:00	8:55	
Jim Isenberg	University of Oregon	Welcome and Announcements	8:55	9:00	
Detournay Stephane	UC Santa Barbara	Three-dimensional gravities and black hole entropy	9:00	9:12	
Sophie de Buyl	UC Santa Barbara	Asymptotic infinite dimensional symmetry of gravity duals for non-relativistic CFTs	9:12	9:24	
Tomas Andrade	UC Santa Barbara	Stability Analysis of Topologically Massive Gravity in three dimensions	9:24	9:36	•
Derek Wise	UC Davis	Topologically Massive AdS Gravity	9:36	9:48	
Colin Cunliff	UC Davis	What happens in 3D gravity at the chiral point?	9:48	10:00	•
Usama al-Binni	University of Tennessee	Particle emission from a black hole on a tense codimension-2 brane	10:00	10:12	•

Matthew West	Syracuse University	eLIGO Photon Pressure Calibration	10:12	10:24	•
		Coffee Break	10:24	11:00	

Session II (Chair: Kip Thorne)

Name	Organization	Talk	Begin	End	Student
Harald Pfeiffer	Caltech	Comparing post-Newtonian binary black hole waveforms to numerical relativity simulations	11:00	11:12	
Tony Chu	Caltech	Simulations of Spinning (Non-Precessing) Binary Black Holes with SpEC	11:12	11:24	•
Lee Lindblom	Caltech	Improved Gauge Drivers for the Generalized Harmonic Einstein Equations	11:24	11:36	
Bela Szilagyi	Caltech	Numerical Simulations of Binary Black Hole Mergers	11:36	11:48	
Jim Bardeen	University of Washington	Trumpet Boundary Conditions for CMC Black Hole IVPs	11:48	12:00	
Luisa T. Buchman	Caltech	Black hole initial data to future null infinity	12:00	12:12	
Charles Torre	Utah State University	Algebraic Computing Tools for Gravitational Physics	12:12	12:24	
Sydney Chamberlin	Utah State University	Algebraic Computing Tools in Gravitational Physics	12:24	12:36	•
		Lunch	12:36	2:00	

Session III (Chair: Richard Price)

Name	Organization	Talk	Begin	End	Student
Jim Isenberg	University of Oregon	Initial Data for the Relativistic Gravitational N Body Problem	2:00	2:12	
Xianghui Luo	University of Oregon	Symmetries of Spacetimes with a Compact Cauchy Horizon	2:12	2:24	•
Michael Holst	UC San Diego	Some techniques for solving the Einstein constraint equations	2:24	2:36	
Gantumur Tsogtgerel	UC San Diego	Solutions of the Einstein constraint equations on asymptotically Euclidean manifolds	2:36	2:48	
Jeffrey S Hazboun	Oregon State University	Effect of negative energy shells on Schwarzschild spacetime	2:48	3:00	•
Sam Cook	Oregon State University	Symmetry Tensors of the Godel Universe	3:00	3:12	•
Rajesh Kommu	UC Davis	Causal Dynamical Triangulations in 2+1 Dimensions	3:12	3:24	•
		Coffee Break	3:24	4:00	

Session IV (Chair: Steve Carlip)

Name	Organization	Talk	Begin	End	Student
Richard Price	UT Brownsville	Strong field effects on pulsar timing	4:00	4:12	
David Saroff	UC Berkeley	Orbits around Schwarzschild and Kerr black holes, a taxonomy	4:12	4:24	•
David Reeb	University of Oregon	Testability of black hole information and quantum-mechanical decoherence	4:24	4:36	•
Akira Villar	Caltech	Low Thermal Noise Coatings	4:48	5:00	•
		Break	5:00	6:00	

Session V (Chair: Jim Isenberg) 25th Anniversary Celebration

Name	Organization	Talk	Begin	End	Student
James Hartle	UC Santa Barbara	The Universe of General Relativity	6:00	7:00	
		Dinner	7:00	8:00	
Richard Price	UT Brownsville	Reflections on a mirror moving at the speed of light	8:00	8:30	

Saturday, March 28, 2009

Session VI (Chair: Lee Lindblom)

Name	Organization	Talk	Begin	End	Student
		Breakfast and Registration	8:00	9:00	
Gary Horowitz	UC Santa Barbara	Using gravity to describe superconductivity	9:00	9:12	
Matthew Roberts	UC Santa Barbara	Hairy Black Holes and Holographic Superconductors	9:12	9:24	•
Aaron Amsel	UC Santa Barbara	Supergravity at the boundary of AdS supergravity	9:24	9:36	•
Geoffrey Compere	UC Santa Barbara	Central charges in the Kerr/CFT correspondence	9:36	9:48	
Ian Morrison	UC Santa Barbara	Group averaging for de Sitter free fields	9:48	10:00	•
Steven Carlip	UC Davis	The small scale structure of spacetime	10:00	10:12	
Marcus Afshar	UC Davis	Quasilocal Energy in FRW Cosmology	10:12	10:24	•
Chun-Yen Lin	UC Davis	Emergence of GR from LQG	10:24	10:36	•
		Coffee Break	10:36	11:00	

Session VII (Chair: Gary Horowitz)

Name	Organization	Talk	Begin	End	Student
Jeandrew Brink	Caltech	Whetting the appetite for understanding strong field Binary Collisions	11:00	11:12	
Mark Scheel (for Kip Thorne)	Caltech	Flat-Spacetime Field Theory and Momentum Flow in Black-Hole Binaries	11:12	11:24	
Jeff Kaplan	Caltech	Post-Newtonian Approximation in a Maxwell-Like Form for Use in Interpreting Binary-Black-Hole Simulations	11:24	11:36	•
David Nichols	Caltech	Momentum Flow in Black-Hole Binaries: Post-Newtonian Approximation	11:36	11:48	•
Mark Scheel	Caltech	Momentum flow in binary black hole collisions: numerical results	11:48	12:00	
Keith D. Matthews	Caltech	Harmonic Initial Data for Post-Newtonian Comparison	12:00	12:12	•
Tanja Hinderer	Caltech	Transition from inspiral to plunge: Progress on an improved treatment	12:12	12:24	
		Lunch	12:24	1:48	

Session VIII (Chair: Ray Frey)

Name	Organization	Talk	Begin	End	Student
David Yeaton-	Caltech	From IR to Green: Measuring Doubling Noise	2:00	2:12	•

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Nicolas Smith	MIT	Enhanced LIGO: Output Mode Cleaner and DC Interferormeter Locking	2:12	2:24	•
Emelie Harstad	University of Oregon	An expanded search for GW bursts in association with GRBs	2:24	2:36	•
Tyson Littenberg	Montana State University	A Bayesian Approach to the Detection Problem in Gravitational Wave Astronomy	2:36	2:48	•
Joey Key	Montana State University	Characterizing the Gravitational Wave Signature from Cosmic String Cusps	2:48	3:00	•
Matthew Adams	Montana State University	Discriminating between a Stochastic Gravitational Wave Background and Instrument Noise	3:00	3:12	•
Joseph Plowman	Montana State University	Constraining the Black Hole Mass Spectrum with Gravitational Wave Observations	3:12	3:24	•
Michael Cohen	Caltech	Mock Lisa Data Challenge 3 - Finding Cosmic Strings with Markov Chain Monte Carlo Methods	3:24	3:36	•
		Coffee Break	3:36	4:06	

Session IX (Chair: Charles Torre)

Name	Organization	Talk	Begin	End	Student
		GGR Student Talk Award	4:06	4:12	
Yasushi Mino	Caltech	Thermal Noise of LIGO mirrors	4:12	4:24	
Greg Mendell	LIGO Hanford Observatory	The Search For Continous Gravitational Waves	4:24	4:36	
Isabel Leonor	University of Oregon	Search for a gravitational-wave counterpart to GRBs using the LIGO and Virgo detectors	4:36	4:48	
George Soli	Integrated Detector Systems	A null experiment shows superluminal group velocity is not sensitive to Earth's absolute motion	4:48	5:00	

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