

LEHIGH UNIVERSITY GEOMETRY/TOPOLOGY CONFERENCE, 2007

SCHEDULE SATURDAY, OCTOBER 6

Time	Room	Speaker	Title
9:30-11:00	NV	Registration	
11:00-12:00	NV I	Yum-Tong Siu	Multiplier ideal sheaves and their applications to analysis and algebraic geometry
12:00-1:15		Lunch	
1:15-2:15	NV I	Gerhard Huisken	An isoperimetric concept for the mass in General Relativity
2:30-3:10	MG 101	Jonathan Keiter	Views of Normal Surfaces as Tracks in the Vertex-Linking Sphere
	MG 110	Tony Bahri	Piecewise Polynomials and the Equivariant Cohomology of Weighted Projective Spaces
	MG 111	Ivko Dimitric	Hypersurfaces of low-type in spaces of constant curvature
	MG 112	Simon Morgan	Geometry of the Placenta I: Flat norm distance on shape space and its smoothing properties
3:20-4:00	MG 101	Michael McCooley	Symmetry groups of non-simply-connected four-manifolds
	MG 110	Jeanne Clelland	Backlund transformations and Darboux integrability for nonlinear wave equations
	MG 111	Martin Bendersky	Stable splitting of moment angle complexes
	MG 112	Djamila Aouada	Geometry of the Placenta II: Topological and geometrical modeling of 3D shapes using a global geodesic Morse function.
4:10-4:50	MG 101	Yongwu Rong	Clock moves and a combinatorial homology
	MG 110	Yanir Rubinstein	Some discretizations of geometric evolution equations
	MG 111	Craig J. Sutton	Canceled
	MG 112	Carolyn M. Salafia	Geometry of the Placenta III: Novel geometric measures of placentas and their branching structure.
5:00-5:40	MG 101	Daniel Kling	A Family of Invariants on Manifolds II
	MG 110	Bianca Santoro	Complete Kahler Ricci-flat metrics on open manifolds
	MG 111	Robert Foote	Pendulum Dynamics on Surfaces of Constant Curvature
	MG 112	Mark Johnson	Decomposing Diagram Cohomology
6:00-7:00	UC	Reception	
7:00-9:00	UC	Banquet	

## SCHEDULE SUNDAY, OCTOBER 7

Time	Room	Speaker	Title
8:00-9:00	NV	Continental breakfast	
9:00	NV I	Peter Ozsváth	Heegaard Floer homology and knots
10:30-11:10	MG 101	Pan Peng	On a proof of Labastida-Marino-Ooguri-Vafa conjecture
	MG 110	David Hurtubise	Morse-Bott Homology
	MG 111	Tatyana Foth	Complex submanifolds, connections, and the semiclassical limit.
	MG 112	Dan Lee	The Riemannian Penrose inequality for dimensions less than 8
11:20-12:00	MG 101	Chan-Ho Suh	Menasco normal form and recognizing unknot diagrams
	MG 110	Damin Wu	Kähler-Einstein metrics on general quasi-projective manifolds
	MG 111	Matthew Miller	Rational models for configuration spaces of lens spaces
	MG 112	Fernando Schwartz	On the topology of black holes
12:0-1:15		Lunch	
1:15-2:15	NV I	Richard Hamilton	TBA
2:30-3:10	MG 101	Natasa Sesum	Compactness results for the Kähler ricci flow
	MG 110	Thomas Shimkus	New Immersions of Grassmann Manifolds
	MG 111	Christina Sormani	Conjugate Points on Length Spaces
	MG 112	Christopher W Seaton	Higher Orbifold Euler Characteristics for General Orbifolds
3:20-4:00	MG 101	Ron Umble	Some naturally occurring examples of A-infinity bialgebras
	MG 110	R. Andrew Hicks	Exterior Differential Systems for Optical Design
	MG 111	Michael Munn	Almost equicontinuity and the construction of homotopy maps
	MG 112		
4:10-4:50	MG 101	Thomas Ivey	Constructing Hopf Hypersurfaces in the Complex Hyperbolic Plane
	MG 110	Youngju Kim	Geometrically infinite surfaces with discrete length spectra
	MG 111	Stephen F. Miller	Calculus of Spectra
	MG 112	Valentino Tosatti	The Calabi-Yau equation on symplectic manifolds
8:00-10:00		Party at Cao's	

## SCHEDULE MONDAY, OCTOBER 8

Time	Rom	Speaker	Title
8:00-9:00		Continental breakfast	
9:00-10:00	NV I	Nick Kuhn	Models for mapping spaces

Time	Rom	Speaker	Title
10:30-11:10	MG 101	Jesus Gonzalez	Topological complexity of lens spaces
	MG 110	Jesse Ratzkin	Rigidity and deformations of constant mean curvature surfaces
	MG 111	Daniel Garbin	On the appearance of Eisenstein series through degeneration
	MG 112	Kei Nakamura	Fox Re-embedding and Bing Submanifolds