

Johns Hopkins University, Department of Mathematics  
Baltimore, Maryland, USA

Graduate student and Post-doc workshop on Mean curvature flows and  
related topics

March 15-17, 2010

*All talks are in Krieger Hall 205*

**Monday March 15, 2010**

8:00	Coffee & Registration	<i>(Krieger Hall 413)</i>
8:30	Welcome	
9:00	Christine Breiner (MIT)	The Asymptotic Geometry of Minimal Surfaces with Finite Topology
10:00	Tobias Lamm (UBC)	Willmore Surfaces in Riemannian Manifolds
11:00	Jacob Bernstein (Stanford)	The Flux and Finer Properties of Complete Minimal Surfaces
12:00	Lunch	<i>(on your own)</i>
1:00--3:00	<b>Jacob Bernstein (Stanford) and Christine Breiner (MIT) Moderators:</b>	
1:00	Richard Bamler (Princeton)	Stability of Hyperbolic Manifolds with Cusps Under the Ricci Flow
1:30	Joel Kramer (JHU)	Embedded Minimal Surfaces of a large Area
2:00	Hans-Joachim Hein (Princeton)	Complete Calabi-Yau Metrics from Rational Elliptic Surfaces
2:30	Jeff Jauregui (Duke)	An Extension of the Riemannian Penrose Inequality
3:00	Break	<i>(Krieger Hall 413)</i>
3:30	Aaron Naber (MIT)	Collapse, Ricci Curvature and Topological $\epsilon$ -Regularity
4:30	Nicos Kapouleas (Brown)	Doubling and Desingularization Constructions for Minimal Surfaces
6:00	Dinner	<i>(Alizee at the Inn at the Colonnade, 4 West University Parkway)</i>

**Tuesday March 16, 2010**

8:00	Coffee	<i>(Krieger Hall 413)</i>
8:30	Casey Douglas (St. Marys)	Construction and Obstructing Minimal Surfaces with Flat Surfaces
9:15	Ovidiu Munteanu (Columbia)	On Gradient Ricci Solitons
10:15	Break	<i>(Krieger hall 413)</i>
10:30--1:00	<b>Ovidiu Munteanu (Columbia) and Aaron Naber (MIT) Moderators:</b>	
10:30	Martin Li (Stanford)	On Manifolds with Positive Isotropic Curvature
11:00	Stephen Kleene (JHU)	A Mimimal Lamination with Bad Singularities
11:30	Thomas Marquardt (MPG)	Inverse Mean Curvature Flow for Hypersurfaces with Boundary
12:00	Lu Wang (MIT)	Bernstein Theorems for MCF
12:30	Chen-Yun Lin (Columbia)	On Hamilton's Ricci Flow and Bartnik's Construction of Metrics as Prescribed Scalar Curvature
1:00	Lunch	<i>(on your own)</i>
2:00	Group Discussion	
2:30--6:00	<b>Christine Breiner (MIT) and Aaron Naber (MIT) Moderators:</b>	
2:30	John Head (MPG)	Mean Curvature Flow with Surgery
3:00	Gregor Giesen (Warwick)	Ricci Flow of Negatively Curved Incomplete Surfaces
3:30	Niels Martin Moller (MIT)	Geodesics in Non-Complete Domains and Self-Shrinkers with a Symmetry
4:00	Break	<i>(Krieger Hall 413)</i>
4:30	Jon Dahl (JHU)	Steiner Problems, Optimal Transport, and Alexandrov Geometry
5:00	Xin Zhou (Stanford)	The Min-Max Minimal Torus
5:30	Frederick Fong (Stanford)	On the Evolution of Laplacian Eigenvalues under the Ricci Flow

**Wednesday March 17, 2010**

8:00	Coffee	<i>(Krieger Hall 413)</i>
8:30--10:30	<b>Jacob Bernstein (Stanford) and Ovidiu Munteanu (Columbia) Moderators:</b>	
8:30	Joe Lauer (Yale)	Convergence of Mean Curvature Flows with Surgery
9:00	Hoekuldur Petur Halldorsson (MIT)	Self Similar Solutions to the Curve Shortening Flow
9:30	Longzhi Lin (JHU)	Closed Geodesics in Alexandrov Spaces of Curvature Bounded From Above
10:00	Ling Xiao (JHU)	Curvature Flow in Hyperbolic Space
10:30	Closing	