$$\frac{d}{dt}g_{ij} = -2R_{ij}$$

Workshop on Geometric Flows

At the Harvard Mathematics Department

March 4-5, 2006

Huai-Dong Cao

Panagiota Daskalopoulos

Richard Hamilton

Shing-Tung Yau

Organizers: Huai-Dong Cao, Panagiota Daskalopoulos, Richard Hamilton, Shing-Tung Yau

Date: March 4-5, 2006

Place: Science center, lecture hall C, Harvard University, Cambridge, MA, 02138. Directions

Speakers:

Vincent Moncrief (Yale): "The Hamiltonian flow for 2+1-dimensional Einstein gravity"

Lei Ni (UCSD): "Local monotonicity and regularity for Ricci flow"

Duong Phong (Columbia): "The complex Monge-Ampere equation and geodesics of Kähler potentials"

Natasa Sesum (Columbia): The Kähler Ricci flow and properties of the solutions of the conjugate heat equation

Brian White (Stanford): Singularities in mean curvature flow

Xi-Ping Zhu (Zhongshan visiting Harvard): "Uniqueness of the Ricci flow on complete non-compact manifolds"

Mu-Tao Wang (Columbia) "Some positivity results of quasi-local mass".

Joachim Krieger (Harvard): "Global regularity and stability results for wave maps in low dimensions."

Horng-Tzer Yau (Harvard): "Long time behavior of the Schrödinger equation"

Program:

Saturday, March 4, 2006

0900-0955	**Duong Phong**:The complex Ampere-Monge equation and geodesics of Kahler potentials
1000-1055	**Vincent Moncrief**:The Hamiltonian Flow for 2+1 dimensional Einstein gravity
1100-1115	BREAK
1115-1210	**Mu-Tao Wang**:Some positivity results of quasi-local mass
1215-1400	LUNCH
1400-1455	**Brian White**:Singularities in mean curvature flow
1500-1555	**Natasa Sesum**:The Kahler-Ricci flow and properties of the solutions of the conjugate heat equations
1600-1615	BREAK
1615-1710	**Lei Ni**:Local monotonicity and regularity for Ricci flow

Sunday March 5, 2006

0900-0955	**Xi-Ping Zhu**:Uniqueness of the Ricci flow on complete non-compact manifolds
1000-1055	**Joachim Krieger**:Global regularity and stability results for wavemaps in low dimension
1100-1115	BREAK
1115-1210	**Horng-Tzer Yau** :Long time behavior of the Schrödinger equation