International School on Extrinsic Curvature Flows | (smr 3209)

Monday, 4 June 2018

08:30 - 17:00 **DAY 1**
Location: Leonardo Building - Budinich Lecture Hall

08:30 **Financial issues at the Fermi Building for paid participants - in parallel, at the Leonardo Building registration of faculty and of participants not lodging at ICTP guesthouses.** *1h50'* (Leonardo Building - Lobby)

> All financially supported participants lodging at ICTP Guesthouses (exc
> ept faculty) should please reach the Operations and Travel Office at th
> e Fermi Building by 8:30 with passport, ICTP badge and travel receipts
> (if any travel support entitlement).
> At the same time, faculty and other participants lodging outside ICTP g
> uesthouses should please register their visits with the School secretar
> y at the Leonardo Building (main entrance level, lobby).   For full in
> formation and working hours please refer to the General Information She
> et.

10:20 **Welcome remarks and opening** *10'*

10:30 **Monotonicity formulae and non-collapsing estimates for mean curvature flow with applications - 1** *1h0'*
Speaker: Gerhard Huisken (Tübingen University)
Material: 📄 Abstract

11:30 **Nonlinear extrinsic flows and ancient solutions - 1** *1h0'*
Speaker: Panagiota Daskalopoulos (Columbia University)
Material: 📄 Abstract

12:30 **Lunch** *2h0'*

14:30 **Existence and regularity theories of Brakke flow - 1** *1h0'*
Speaker: Yoshihiro Tonegawa (Tokyo Institute of Technology)
Material: 📄 Abstract

15:30 **Coffee break** *30'* (Leonardo Building - Lobby)

16:00 **Singularities of the mean curvature flow of mean convex hypersurfaces - 1** *1h0'*
Speaker: Carlo Sinestrari (University of Rome Tor Vergata)
Material: 📄 Abstract

Tuesday, 5 June 2018

09:00 - 17:00 **DAY 2**

09:00 **Monotonicity formulae and non-collapsing estimates for mean curvature flow with applications - 2** *1h15'* (Leonardo Building - Budinich Lecture Hall)
Speaker: Gerhard Huisken (Tübingen University)

10:15 **Coffee break** *30'* (Leonardo Building - Lobby)

10:45 **Existence and regularity theories of Brakke flow - 2** *1h15'* (Leonardo Building - Budinich Lecture Hall)
Speaker: Yoshihiro Tonegawa (Tokyo Institute of Technology)

12:00 **Lunch** *2h0'*

14:00 **Nonlinear extrinsic flows and ancient solutions - 2** *1h15'* (Leonardo Building - Budinich Lecture Hall)
Speaker: Panagiota Daskalopoulos (Columbia University)

15:15   **Coffee break** *30'*   (Leonardo Building - Budinich Lecture Hall)

15:45   **Monotonicity formulae and non-collapsing estimates for mean curvature flow with applications - 3** *1h15'*   (Leonardo Building - Budinich Lecture Hall)
Speaker: Gerhard Huisken (Tübingen University)

19:30 - 21:00   DAY 2: RECEPTION - All participants are cordially invited to an informal reception on the Terrace of the Adriatico Guesthouse.
Location: Adriatico Guesthouse

Wednesday, 6 June 2018

09:00 - 17:00   DAY 3
Location: Leonardo Building - Budinich Lecture Hall

09:00   **Existence and regularity theories of Brakke flow - 3** *1h15'*
Speaker: Yoshihiro Tonegawa (Tokyo Institute of Technology)

10:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

10:45   **Singularities of the mean curvature flow of mean convex hypersurfaces - 2** *1h15'*
Speaker: Carlo Sinestrari (University of Rome Tor Vergata)

12:00   **Lunch** *2h0'*

14:00   **Monotonicity formulae and non-collapsing estimates for mean curvature flow with applications - 4** *1h15'*
Speaker: Gerhard Huisken (Tübingen University)

15:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

15:45   **Nonlinear extrinsic flows and ancient solutions - 3** *1h15'*
Speaker: Panagiota Daskalopoulos (Columbia University)

Thursday, 7 June 2018

09:00 - 17:00   DAY 4
Location: Leonardo Building - Budinich Lecture Hall

09:00   **Nonlinear extrinsic flows and ancient solutions - 4** *1h15'*
Speaker: Panagiota Daskalopoulos (Columbia University)

10:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

10:45   **Monotonicity formulae and non-collapsing estimates for mean curvature flow with applications - 5** *1h15'*
Speaker: Gerhard Huisken (Tübingen University)

12:00   **Lunch** *2h0'*

14:00   **Singularities of the mean curvature flow of mean convex hypersurfaces - 3** *1h15'*
Speaker: Carlo Sinestrari (University of Rome Tor Vergata)

15:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

15:45   **Existence and regularity theories of Brakke flow - 4** *1h15'*
Speaker: Yoshihiro Tonegawa (Tokyo Institute of Technology)

Friday, 8 June 2018

09:00 - 17:00   DAY 5
Location: Leonardo Building - Budinich Lecture Hall

09:00   **Singularities of the mean curvature flow of mean convex hypersurfaces - 4** *1h15'*
Speaker: Carlo Sinestrari (University of Rome Tor Vergata)

10:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

10:45   **Existence and regularity theories of Brakke flow - 5** *1h15'*
Speaker: Yoshihiro Tonegawa (Tokyo Institute of Technology)

12:00   **Lunch** *2h0'*

14:00   **Nonlinear extrinsic flows and ancient solutions - 5** *1h15'*
Speaker: Panagiota Daskalopoulos (Columbia University)

15:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

15:45   **Singularities of the mean curvature flow of mean convex hypersurfaces - 5** *1h15'*

Speaker: Carlo Sinestrari (University of Rome Tor Vergata)

Monday, 11 June 2018

09:00 - 17:00   **DAY 6**

Location: Leonardo Building - Budinich Lecture Hall

09:00   **Phase-field models for motion by mean curvature - 1** *1h15'*
Speaker: Panagiotis Souganidis (University of Chicago)
Material: 📄 Abstract

10:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

10:45   **Dynamics, Symmetry and Asymmetry of Ancient Solutions to Mean Curvature Flow 1: ODE techniques in curvature flows** *1h15'*   (Leonardo Building - Budinich Lecture Hall)
Speaker: Sigurd Angenent (University of Wisconsin-Madison)
Material: 📄 Abstract

12:00   **Lunch** *2h0'*

14:00   **Phase-field models for motion by mean curvature - 2** *1h15'*
Speaker: Panagiotis Souganidis (University of Chicago)

15:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

15:45   **Motion by curvature of networks in the plane - 1** *1h15'*
Speaker: Carlo Mantegazza (University of Naples Federico II)
Material: 📄 Abstract

Tuesday, 12 June 2018

09:00 - 17:00   **DAY 7**

Location: Leonardo Building - Budinich Lecture Hall

09:00   **The thresholding scheme for mean curvature flow as minimizing movement scheme - 1** *1h15'*
Speaker: Felix Otto (Max Planck Institute for Mathematics in the Sciences in Leipzig)
Material: 📄 Abstract

10:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

10:45   **Dynamics, Symmetry and Asymmetry of Ancient Solutions to Mean Curvature Flow 2: Uniqueness and Nonuniqueness of MCF from cones** *1h15'*   (Leonardo Building - Budinich Lecture Hall)
Speaker: Sigurd Angenent (University of Wisconsin-Madison)

12:00   **Lunch** *2h0'*

14:00   **Motion by curvature of networks in the plane - 2** *1h15'*
Speaker: Carlo Mantegazza (University of Naples Federico II)

15:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

15:45   **The thresholding scheme for mean curvature flow as minimizing movement scheme - 2** *1h15'*
Speaker: Felix Otto (Max Planck Institute for Mathematics in the Sciences in Leipzig)

19:30 - 21:00   **DAY 7: RECEPTION - All participants are cordially invited to an informal reception on the Terrace of the Adriatico Guesthouse.**
Location: Adriatico Guesthouse

Wednesday, 13 June 2018

09:00 - 17:00   **DAY 8**

Location: Leonardo Building - Budinich Lecture Hall

09:00   **Dynamics, Symmetry and Asymmetry of Ancient Solutions to Mean Curvature Flow 3: Velazquez' example, and asymptotics for ancient ovals** *1h15'*   (Leonardo Building - Budinich Lecture Hall)
Speaker: Sigurd Angenent (University of Wisconsin-Madison)

10:15   **Coffee break** *30'*   (Leonardo Building - Lobby)

10:45   **Phase-field models for motion by mean curvature - 3** *1h15'*
Speaker: Panagiotis Souganidis (University of Chicago)

12:00   **Lunch** *2h0'*

14:00	**The thresholding scheme for mean curvature flow as minimizing movement scheme - 3** *1h15'*
	Speaker: Felix Otto (Max Planck Institute for Mathematics in the Sciences in Leipzig)
15:15	**Coffee break** *30'* (Leonardo Building - Lobby)
15:45	**Motion by curvature of networks in the plane - 3** *1h15'*
	Speaker: Carlo Mantegazza (University of Naples Federico II)

Thursday, 14 June 2018

09:00 - 17:00   **DAY 9**

Location: Leonardo Building - Budinich Lecture Hall

09:00	**Phase-field models for motion by mean curvature - 4** *1h15'*
	Speaker: Panagiotis Souganidis (University of Chicago)
10:15	**Coffee break** *30'* (Leonardo Building - Lobby)
10:45	**The thresholding scheme for mean curvature flow as minimizing movement scheme - 4** *1h15'*
	Speaker: Felix Otto (Max Planck Institute for Mathematics in the Sciences in Leipzig)
12:00	**Lunch** *2h0'*
14:00	**Dynamics, Symmetry and Asymmetry of Ancient Solutions to Mean Curvature Flow 4: Ancient convex solutions to MCF** *1h15'* (Leonardo Building - Budinich Lecture Hall)
	Speaker: Sigurd Angenent (University of Wisconsin-Madison)
15:15	**Coffee break** *30'* (Leonardo Building - Lobby)
15:45	**Motion by curvature of networks in the plane - 4** *1h15'*
	Speaker: Carlo Mantegazza (University of Naples Federico II)

Friday, 15 June 2018

09:00 - 17:10   **DAY 10**

Location: Leonardo Building - Budinich Lecture Hall

09:00	**The thresholding scheme for mean curvature flow as minimizing movement scheme - 5** *1h15'*
	Speaker: Felix Otto (Max Planck Institute for Mathematics in the Sciences in Leipzig)
10:15	**Coffee break** *30'* (Leonardo Building - Lobby)
10:45	**Motion by curvature of networks in the plane - 5** *1h15'*
	Speaker: Carlo Mantegazza (University of Naples Federico II)
12:00	**Lunch** *2h0'*
14:00	**Phase-field models for motion by mean curvature - 5** *1h15'*
	Speaker: Panagiotis Souganidis (University of Chicago)
15:15	**Coffee break** *30'* (Leonardo Building - Lobby)
15:45	**Dynamics, Symmetry and Asymmetry of Ancient Solutions to Mean Curvature Flow 5: Dynamics and symmetry of ancient convex mean curvature flows** *1h15'* (Leonardo Building - Budinich Lecture Hall)
	Speaker: Sigurd Angenent (University of Wisconsin-Madison)
17:00	**Closing remarks** *10'*