





International School on Extrinsic Curvature Flows | (smr 3209)



Monday, 4	June 20	18			
08:30 - 17:00	DAY 1				
	Locatio	n: 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)			
		For full information please refer to the General Information Sheet.			
	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 Dideo			
	11:30	Nonlinear extrinsic flows and ancient solutions - 1 1h0'			
	11.00	Speaker: Panagiota Daskalopoulos (Columbia University)			
		Material: Abstract Slides			
	12:30	Lunch 2h0'			
	14:30	Existence and regularity theories of Brakke flow - 1 1h0'			
		Speaker: Yoshihiro Tonegawa (Tokyo Institute of Technology)			
		Material: Abstract Dideo			
	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 Dideo			
Tuesday, 5	June 20	018			
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)			
		Material: Video			
	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) Material: Video			
	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)			
		Material: Dideo			

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

Location: Adriatico Guesthouse

19:30 - 21:00

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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)
                        Material: 🛅 Video
                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)
                        Material: Tideo
                12:00
                        Lunch 2h0
                14:00
                        Monotonicity formulae and non-collapsing estimates for mean curvature flow with applications -
                        Speaker: Gerhard Huisken (Tübingen University)
                        Material:
                                 Tideo
                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 -
                        Speaker: Gerhard Huisken (Tübingen University)
                        Material:
                                  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
                        Singularities of the mean curvature flow of mean convex hypersurfaces - 4 1h15'
                        Speaker: Carlo Sinestrari (University of Rome Tor Vergata)
                        Material:

    □ Video

                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)
                        Material:
                                   Tideo
                12:00
                        Lunch 2h0'
                 14:00
                        Singularities of the mean curvature flow of mean convex hypersurfaces - 5 1h15' (Leonardo Building
                        - Budinich Lecture Hall )
                        Speaker: Carlo Sinestrari (University of Rome Tor Vergata)
                        Material: Tideo
                15:15
                        Coffee break 30' (Leonardo Building - Lobby)
                15:45
                        Nonlinear extrinsic flows and ancient solutions - 5 1h15' (Leonardo Building - Budinich Lecture Hall)
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Speaker: Panagiota Daskalopoulos (Columbia University)

09:00 - 17:00	DAY 6	v Leonarde Building - Budinish Lecture Hall
		: 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 Video
	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 Dideo
	12:00	Lunch 2h0'
	14:00	Phase-field models for motion by mean curvature - 2 1h15'
	14.00	Speaker: Panagiotis Souganidis (University of Chicago)
		Material: Video
	15:15	Coffee brook 20/ (Leanarde Building Lebbre)
	15:15 15:45	Coffee break 30' (Leonardo Building - Lobby) Motion by curvature of networks in the plane - 1 1h15'
	10.10	Speaker: Carlo Mantegazza (University of Naples Federico II)
		Material: Appendix: 1000 grains
Tuesday, 12	! June 2	2018
09:00 - 18:15	DAY 7	
		: Leonardo Building - Budinich Lecture Hall
	09:00	Phase-field models for motion by mean curvature - 3 1h15' (Leonardo Building - Budinich Lecture Hall)
		Speaker: Panagiotis Souganidis (University of Chicago)
		Material: Dideo
	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)
		Material: Video
	12:00	Lunch 2h0'
	14:00	Motion by curvature of networks in the plane - 2 1h15'
		Speaker: Carlo Mantegazza (University of Naples Federico II)
		Material: Slides Dideo
	15:15	Coffee break 30' (Leonardo Building - Lobby)
	15:45	The thresholding scheme for mean curvature flow as minimizing movement scheme - 1 1h15' (
		Leonardo Building - Budinich Lecture Hall) Speaker: Felix Otto (Max Planck Institute for Mathematics in the Sciences in Leipzig)
		Material: Abstract Divideo
10:20 21:00	D 4 1/ 7	
19:30 - 21:00		RECEPTION - All participants are cordially invited to an informal reception on the Terrace of
		riatico Guesthouse. : Adriatico Guesthouse
Wednesday,	13 Jur	ne 2018
09:00 - 18:15	DAY 8	
10.10		: 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)
		Material: Video
	10:15	Coffee break 30' (Leonardo Building - Lobby)
		(Loomand Danding Lood) /

		Leonardo Building - Budinich Lecture Hall) Speaker: Felix Otto (Max Planck Institute for Mathematics in the Sciences in Leipzig)
		Material: Lecture notes Video
	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) Material: video
	45.45	
	15:15 15:45	Coffee break 30' (Leonardo Building - Lobby) Motion by curvature of networks in the plane - 3 1h15'
	13.43	Speaker: Carlo Mantegazza (University of Naples Federico II)
		Material: Appendix Slides Dideo
Thursday, 1	.4 June	2018
09:00 - 18:15	DAY 9	
	_	n: Leonardo Building - Budinich Lecture Hall
	09:00	Phase-field models for motion by mean curvature - 4 1h15'
		Speaker: Panagiotis Souganidis (University of Chicago) Material: Video
		Material: Video
	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)
		Material: Slides Video
	12:00	Lunch 2h0'
	14:00	The thresholding scheme for mean curvature flow as minimizing movement scheme - 5 1h15' (Leonardo Building - Budinich Lecture Hall)
		Speaker: Felix Otto (Max Planck Institute for Mathematics in the Sciences in Leipzig)
		Material: Lecture notes Video
	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) Material: Slides Video
		Material: Slides Video
Friday, 15 J	une 20	18
09:00 - 18:25	DAY 1	0
	Location	: Leonardo Building - Budinich Lecture Hall
	09:00	Phase-field models for motion by mean curvature - 5 1h15' (Leonardo Building - Budinich Lecture Hall)
		Speaker: Panagiotis Souganidis (University of Chicago) Material: Video
		Material: Video
	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)
		Material: Video
	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	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'
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10:45 The thresholding scheme for mean curvature flow as minimizing movement scheme - 2 1h15' (