

International School on Extrinsic Curvature Flows



Organized in partnership with the Clay Mathematics Institute

4 - 15 June 2018
Trieste, Italy

Further information:
<http://indico.ictp.it/event/8314/>
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The School focuses on extrinsic curvature flows, a fundamental research direction at the intersection of analysis and geometry, with deep connections to the theories of minimal surfaces and of diffusive partial differential equations.

Description:

This School aims at introducing students both to the basic ideas and to the most recent breakthroughs in the field. Extrinsic flows have important applications to the geometry of submanifolds, as their study provides an effective strategy for obtaining topological classification results and for proving sharp geometric inequalities.

In a broader context, extrinsic flows arise in describing the dynamics of interfaces in physical and biological sciences, a fact that provides a strong scientific motivation for their mathematical inquiry. Virtually all the different approaches to mean curvature flows will be accounted for, with particular emphasis on the fundamental problem of singularities formation. A major goal of the School will indeed be putting the best students in the position of understanding the many open problems in the field.

Organizers:

C. Arezzo, ICTP, Local Organizer
G. Bellettini, Università di Siena and ICTP
F. Maggi, University of Texas at Austin
C. Sinestrari, Università di Roma Tor Vergata

Lecturers:

S. Angenent, University of Wisconsin-Madison
P. Daskalopoulos, Columbia University
G. Huisken, Universität Tübingen
C. Mantegazza, Università di Napoli Federico II
F. Otto, MPI-MIS, Leipzig
C. Sinestrari, Università di Roma Tor Vergata
P. Souganidis, University of Chicago
Y. Tonegawa, Tokyo Institute of Technology

How to apply:

Online application:
<http://indico.ictp.it/event/8314/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

1 March 2018



The Abdus Salam
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Trieste, Italy

