



**POLITECNICO
DI TORINO**

Dipartimento
di Scienze Matematiche "G. L. Lagrange"

Workshop on Nonlinear Cross Diffusion and Multiscale Problems

The meeting is organized in the framework of the national research project
"Mathematical Problems in Kinetic Theory and Applications"
financed by the Italian Ministry of Education and Research.

Organizer: Elena De Angelis

February 14th - 17th, 2017

February 14th

- 8.50 - 9.00 Opening Elena De Angelis
- 9.00 - 9.45 Youshan Tao: Analysis of a mathematical model for virus infection dynamics with chemotaxis
- 9.45 - 10.15 Break
- 10.15 - 11.00 Nicola Bellomo: From pedestrian to swarm dynamics: Can it be used for cell dynamics?
- 11.00 - 11.45 Angela Pistoia: Existence and multiplicity of solutions to the Keller-Segel system

Lunch

- 14.00 - 14.45 Christina Surulescu: Mathematical models for moving active particles
- 14.45 - 15.30 Kevin Painter: Modelling movement over multiple scales: from the movement of molecules inside cells to the navigation of turtles across ocean
- 15.30 - 16.00 Break
- 16.00 - 17.00 Round table chaired by Michael Winkler

February 15th - 17th: Study Groups

Sponsor

MIUR through the PRIN - Research Project of National Interest
"Mathematical Problems in Kinetic Theory and Applications"

