

International School
**“Singularities, Blow-up and Non-Classical Problems
in Nonlinear PDEs for youth”**

Program

(Moscow time, UTC+3)

November, 13, Wednesday

- 11:00-12:00 **Prof. Laurent Véron**, *University of Tours, France*
The singularity problems in nonlinear elliptic equations: history
and progress. Lecture 1
- 12:15-13:15 **Prof. Juncheng Wei**, *Chinese University of Hong Kong, Hong
Kong, China*
Parabolic Gluing Methods and Type II Blow-up of Fujita
Equation. Lecture 1
- 13:30-14:30 **Prof. Lijun Zhang**, *Shandong University of Science and
Technology, China*
Traveling wave solutions to nonlinear wave equations:
dynamical system approach. Lecture 1

November, 14, Thursday

- 10:00-11:00 **Prof. Moshe Marcus**, *Technical University Technion, Israel*
Boundary value problems for elliptic semi-linear equations with
measure data
- 11:15-12:15 **Prof. Juncheng Wei**, *Chinese University of Hong Kong, Hong
Kong, China*
Parabolic Gluing Methods and Type II Blow-up of Fujita
Equation. Lecture 2
- 12:30-13:30 **Prof. Laurent Véron**, *University of Tours, France*
The singularity problems in nonlinear elliptic equations: history
and progress. Lecture 2

November, 15, Friday

- 10:00-11:00 **Prof. Florica Cirstea**, *Sydney University, Australia*
Singularities for nonlinear elliptic equations with singular potentials and gradient-dependent lower-order terms. Lecture 1
- 11:15-12:15 **Prof. Quoc Hung Nguyen**, *Chinese Academy of Sciences in Beijing, China*
Well-posedness for local and nonlocal quasilinear evolution equations in fluids and geometry. Lecture 1
- 14:15-15:15 **Prof. Lijun Zhang**, *Shandong University of Science and Technology, China*
Traveling wave solutions to nonlinear wave equations: dynamical system approach. Lecture 2
- 15:30-16:30 **Prof. Alessio Porretta**, *University of Rome Tor Vergata, Italy*
Singularities and blow-up in viscous Hamilton-Jacobi equations. Lecture 1

November, 16, Saturday

- 10:00-11:00 **Prof. Florica Cirstea**, *Sydney University, Australia*
Singularities for nonlinear elliptic equations with singular potentials and gradient-dependent lower-order terms. Lecture 2
- 11:15-12:15 **Prof. Quoc Hung Nguyen**, *Chinese Academy of Sciences in Beijing, China*
Well-posedness for local and nonlocal quasilinear evolution equations in fluids and geometry. Lecture 2
- 12:30-13:30 **Prof. Alessio Porretta**, *University of Rome Tor Vergata, Italy*
Singularities and blow-up in viscous Hamilton-Jacobi equations. Lecture 2