PROGRAM OF THE MINI-COURSES 2018
2-6 July

Mini-courses are in boldface

Monday 2 July	Room P4
9.05 – 9.15	Welcome message
9.15 – 10.00	**Monique Dauge** IRMAR, Université de Rennes 1, France. *Initiation into corner singularities*
10.10 – 10.55	**Andreas Seeger** University of Wisconsin-Madison, USA. *Radial Fourier multipliers*
10.55 – 11.20	Coffee Break
11.20 – 12.05	**Ioannis Stratis** National and Kapodistrian University of Athens, Greece. *Mathematical Analysis of Problems in Complex Media Electromagnetics*
12.15 – 13.00	**Vincenzo Vespri** Università degli Studi di Firenze, Italy. *Harnack's inequality for degenerate and singular parabolic equations*
	Lunch
	Special session
15.00 – 15.30	Davide Buoso - Universidade de Lisboa, Portugal. *Eigenvalues of the Biharmonic operator with tension*
15.30 – 16.00	Francesco Ferraresso - Universität Bern, Switzerland. *A collection of spectral convergence results for high order elliptic operators*
16.00 – 16.30	Roman Pukhtaievych - University of Padova. *Dependence of the effective thermal conductivity of periodic composites on the diameter of inclusions*
16.45 – 17.15	Paolo Luzzini - University of Padova. *Regularizing properties of periodic layer heat potentials and application to transmission problems*
17.15 – 17.45	Riccardo Molinarolo - Aberystwyth University, UK. *A singularly perturbed nonlinear non-autonomous trasmission problem*
17.45 – 18.15	Luigi Provenzano - University of Padova. *Complementary asymptotically sharp estimates for eigenvalue means of Laplacians*
18.15 – 18.45	Gaspare Da Fies - Aberystwyth University, UK. *Non linear integral equations in hydraulic fracturing*

Tuesday 3 July	Room P4
9.15 – 10.00	**Vincenzo Vespri** Università degli Studi di Firenze, Italy. *Harnack's inequality for degenerate and singular parabolic equations*
10.10 – 10.55	**Andreas Seeger** University of Wisconsin-Madison, USA. *Radial Fourier multipliers*
10.55 – 11.20	Coffee Break
11.20 – 12.05	**Ioannis Stratis** National and Kapodistrian University of Athens, Greece. *Mathematical Analysis of Problems in Complex Media Electromagnetics*
12.15 – 13.00	**Monique Dauge** IRMAR, Université de Rennes 1, France. *Initiation into corner singularities*
Lunch	
15.00 – 15.30	Giuseppina di Blasio - Università degli Studi della Campania "Luigi Vanvitelli", Caserta, Italy. *Sharp estimates on the first Dirichlet eigenvalue of nonlinear elliptic operators via maximum principle*
15.30 – 16.00	Filomena Feo - Universita degli Studi di Napoli "Parthenope", Naples, Italy. *Long-time asymptotics for nonlocal porous medium equation with absorption or convection*
16.00 – 16.30	Evgeny Galakhov and Olga Salieva – RUDN University and Moscow State Technological University "Stankin", Moscow, Russia *Non-solvability of Some Nonlinear Inequalities with Fractional Laplacian*
16.45 – 17.15	Gian Maria Dall'Ara - Faculty of Mathematics of the University of Vienna, Austria. *Multiplier theorems for Grushin operators*
17.15 – 17.45	Carmelo Puliatti - Universitat Autonoma de Barcelona, Spain. *Estimates for the maximal Cauchy integral on chord-arc curves*
17.45 – 18.15	Gianmarco Brocchi - University of Birmingham, UK. *Existence of extremizers for a Strichartz estimate for the 4th order Schrodinger equation*
18.15 – 18.45	Roberto Bramati – University of Padova. *Brascamp-Lieb type inequalities on spheres*

Wednesday 4 July	Room P4
9.15 – 10.00	**Monique Dauge -** IRMAR, Université de Rennes 1, France. *Initiation into corner singularities*
10.10 – 10.55	**Andreas Seeger** University of Wisconsin-Madison, USA. *Radial Fourier multipliers*
10.55 – 11.20	Coffee Break
11.20 – 12.05	**Ioannis Stratis** National and Kapodistrian University of Athens, Greece. *Mathematical Analysis of Problems in Complex Media Electromagnetics*
12.15 – 13.00	**Vincenzo Vespri** Università degli Studi di Firenze, Italy. *Harnack's inequality for degenerate and singular parabolic equations*
Lunch	
15.00 – 15.35	Martin Costabel - IRMAR, Université de Rennes 1, France. *Regularity for Maxwell's equations on Lipschitz domains*
15.35 – 16.10	Sergiy Plaksa - Institute of Mathematics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine. *A Schwartz-type boundary value problem for monogenic functions in a biharmonic algebra*
16.10 – 16.45	Ayhan Serbetci - Ankara University, Turkey. *On Hardy inequality in variable Lebesgue spaces with mixed norm*
16.55 – 18.30	**Excursion:** Visit at Palazzo Bo' (meeting at Room P4)

Thursday 5 July	Room P4
9.15 – 10.00	**Monique Dauge** IRMAR, Université de Rennes 1, France. *Initiation into corner singularities*
10.10 – 10.55	**Andreas Seeger** University of Wisconsin-Madison, USA. *Radial Fourier multipliers*
10.55 – 11.20	Coffee Break
11.20 – 12.05	**Ioannis Stratis** National and Kapodistrian University of Athens, Greece. *Mathematical Analysis of Problems in Complex Media Electromagnetics*
12.15 – 13.00	**Vincenzo Vespri** Università degli Studi di Firenze, Italy. *Harnack's inequality for degenerate and singular parabolic equations*
Lunch	
15.00 – 15.30	Jason R. Morris - State University of New York, USA. *Equivalence of $l^{\{p_n\}}$ and $l^{\{q_n\}}$ norms using asymptotic bounds for $|p_n\text{-}q_n|$*
15.30 – 16.00	Abdulhamit Kucukaslan - Czech Academy of Sciences, Institute of Mathematics Prague, Czech Republic. *Integral Operators of Harmonic Analysis in Local Morrey-Lorentz Spaces*
16.00 - 16.30	Alberto Debernardi - Centre de Recerca Matematica and Universitat Autonoma de Barcelona, Spain. *Weighted norm inequalities for integral transforms with splitting kernels*
16.45 – 17.15	Mikhail Cherdantsev – Cardiff University, UK. *Stochastic homogenisation of high-contrast media*
17.15 – 17.45	Canay Aykol - Ankara University, Turkey. *Fractional maximal operators and fractional integrals on local Morrey-Lorentz spaces and some applications*
17.45 – 18.15	Tugba Akyel, Istanbul, Turkey. *About Schwarz Lemma on the boundary*
18.15 – 18.45	Mario Stipčić - University of Zagreb, Croatia. *Hypergraph representation and boundedness of entangled multilinear forms*
20.15	Social Dinner at the restaurant "Nane della Giulia" Via Santa Sofia 1 (people are expected to go directly to the restaurant, see the map in the website).

Friday 6 July	Room P4
9.15 – 10.00	**Monique Dauge** IRMAR, Université de Rennes 1, France. *Initiation into corner singularities*
10.10 – 10.55	**Andreas Seeger** University of Wisconsin-Madison, USA. *Radial Fourier multipliers*
10.55 – 11.20	Coffee break
11.20 – 12.05	**Ioannis Stratis** National and Kapodistrian University of Athens, Greece. *Mathematical Analysis of Problems in Complex Media Electromagnetics*
12.15 – 13.00	**Vincenzo Vespri** Università degli Studi di Firenze, Italy. *Harnack's inequality for degenerate and singular parabolic equations*
Lunch	
15.00 – 15.30	Mikhail Goldman, RUDN University, Moscow, Russia. *Criteria of optimal embeddings for potentials*
15.30 – 16.00	Victor Burenkov, RUDN University, Moscow, Russia. *Morrey-type spaces – what they are useful for*

VENUE: Mini-course will be held in **Room P4, located on the 2nd floor of Edificio Paolotti, Via Paolotti 2/a**. How to reach room P4 from the entrance of the Department of Mathematics (Via Trieste 63): exit tower A (which carries the street no. 63), reach the cross road which you see just before the curve of Via Trieste with Via Bassi, cross the road and go up on the channel argin, cross the pedestrian bridge, cross the road, walk through the gate, continue walking straight to the next gate, cross the gate, cross the road and continue straight into Via Paolotti, walk in Via Paolotti till the end of the street where you find on the left a big building with a green gate and a long front porch: that is Edificio Paolotti. Enter the door located at the very end of the front porch and proceed to the second floor where you find Room P4.