

PROGRAM OF THE MINI-COURSES 2024

24-28 June

Mini-courses are in boldface

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| Monday 24 June | Room P4 |
| 8.50 – 9.00 | Welcome message |
| 9.00 – 09.45 | Konstantin Pankrashkin - University of Oldenburg, Germany - <i>Min-max principle as a tool for spectral asymptotics</i> |
| 10.00 – 10.45 | Mariusz Mirek - Rutgers University, USA - <i>When additive combinatorics meets ergodic theory and Fourier analysis</i> |
| 10.45 – 11.15 | Coffee Break |
| 11.15 – 12.15 | Cristina Trombetti - Università di Napoli “Federico II”, Italy - <i>Some classic results in shape optimization</i> |
| 12.30 – 13.15 | Victor Nistor - Université de Lorraine, France - <i>Analysis on manifolds and applications to layer potentials</i> |
| Lunch | |
| 15.00 – 15.40 | Mirela Kohr, Babeş-Bolyai University, Romania, <i>Boundary value problems for the Stokes system on manifolds with straight cylindrical ends</i> |
| 15.45 – 16.10 | Antonio Giuseppe Grimaldi, Politecnico di Torino, Italy, <i>Sharp second order regularity for widely degenerate elliptic equations</i> |
| 16.15 – 16.40 | Stefania Russo, Università di Napoli “Federico II”, Italy, <i>The asymptotic behaviour of the solutions to widely degenerate p-Laplace equations</i> |
| 16.50 – 17.15 | Francesco Ferrareso, Università di Sassari, Italy, <i>On the eigenvalues of the Reissner-Mindlin system in the vanishing thickness limit</i> |
| 17.20 – 17.45 | Luigi Provenzano, Sapienza Università di Roma, Italy, <i>Courant’s nodal domain theorem does not hold for Dirichlet-to-Neumann eigenfunctions</i> |

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| Tuesday 25 June | Room P4 |
| 9.00 – 09.45 | Konstantin Pankrashkin - University of Oldenburg, Germany - <i>Min-max principle as a tool for spectral asymptotics</i> |
| 10.00 – 10.45 | Mariusz Mirek - Rutgers University, USA - <i>When additive combinatorics meets ergodic theory and Fourier analysis</i> |
| 10.45 – 11.15 | Coffee Break |
| 11.15 – 12.15 | Cristina Trombetti - Università di Napoli “Federico II”, Italy - <i>Some classic results in shape optimization</i> |
| 12.30 – 13.15 | Victor Nistor - Université de Lorraine, France - <i>Analysis on manifolds and applications to layer potentials</i> |
| Lunch | |

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| 15.00 – 15.45 | Cristina Trombetti - Università di Napoli “Federico II”, Italy - <i>Some classic results in shape optimization</i> |
| 16.00 – 16.40 | Jurgen Appell, University of Wurzburg, Germany, <i>A friendly introduction to nonlinear spectral theory</i> |
| 16.50 – 17.15 | Francesco Bozzola, Università di Parma, Italy, <i>Some bounds for principal frequencies in general domains</i> |
| 17.20 – 17.45 | Riccardo Molinarolo, Università del Piemonte Orientale, <i>A general integral identity with applications to a reverse Serrin problem</i> |
| 17.50 – 18.15 | Teodor Rugina, University of Bucharest, Romania, <i>Sharp constants in L_p-Hardy and Rellich inequalities</i> |

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| Wednesday 26 June | Room P4 |
| 9.00 – 09.45 | Konstantin Pankrashkin - University of Oldenburg, Germany - <i>Min-max principle as a tool for spectral asymptotics</i> |
| 10.00 – 10.45 | Mariusz Mirek - Rutgers University, USA - <i>When additive combinatorics meets ergodic theory and Fourier analysis</i> |
| 10.45 – 11.15 | Coffee Break |
| 11.15 – 12.15 | Cristina Trombetti - Università di Napoli “Federico II”, Italy - <i>Some classic results in shape optimization</i> |
| 12.30 – 13.15 | Victor Nistor - Université de Lorraine, France - <i>Analysis on manifolds and applications to layer potentials</i> |
| Lunch | |
| 16.30 – 18.00 | Excursion: Visit Palazzo Bo'. Meeting in room P4 at 16.30 . |
| 20.00 – | Social Dinner |

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| Thursday 27 June | Room P4 |
| 9.00 – 09.45 | Konstantin Pankrashkin - University of Oldenburg, Germany - <i>Min-max principle as a tool for spectral asymptotics</i> |
| 10.00 – 10.45 | Mariusz Mirek - Rutgers University, USA - <i>When additive combinatorics meets ergodic theory and Fourier analysis</i> |
| 10.45 – 11.15 | Coffee Break |
| 11.30 – 12.15 | Victor Nistor - Université de Lorraine, France - <i>Analysis on manifolds and applications to layer potentials</i> |
| 12.30 – 13.15 | Victor Nistor - Université de Lorraine, France - <i>Analysis on manifolds and applications to layer potentials</i> |
| Lunch | |
| 15.00 – 15.40 | Sergei Rogosin and Maryna Dubatovskaya, Belarusian State University, Belarus. <i>On the Riemann problem in the logarithmic case</i> |
| 15.45 – 16.10 | Valentina Ciccone, Universität Bonn, Germany, <i>Endpoint estimates for higher-order Marcinkiewicz multipliers</i> |
| 16.15 – 16.40 | Bartosz Langowski, Franciscan University of Steubenville, US, <i>Polynomial ergodic theorems for continuous flows</i> |
| 16.45 – 17.10 | Wojciech Słomian, University of Wrocław, Poland, <i>Oscillation</i> |

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| Friday 28 June | Room P4 |
| 9.00 – 09.45 | Konstantin Pankrashkin - University of Oldenburg, Germany - <i>Min-max principle as a tool for spectral asymptotics</i> |
| 10.00 – 10.45 | Mariusz Mirek - Rutgers University, US - <i>When additive combinatorics meets ergodic theory and Fourier analysis</i> |
| 10.45 – 11.15 | Coffee Break |
| 11.15 – 11.55 | Sergiy Plaksa, Institute of Mathematics of the National Academy of Sciences of Ukraine, Ukraine, <i>On the continuous extension of the logarithmic double layer potential to the Ahlfors-regular boundary of a domain</i> |
| 12.00 – 12.25 | Sandeep Kumar Soni, University of Zagreb, Croatia, <i>The von Neumann approach for positive symmetric systems</i> |
| 12.30 – 12.40 | Closing remarks |

VENUE: Mini-courses 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 junction 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.