

# PROGRAM OF THE MINI-COURSES 2026

## 16 – 19 June

Mini-courses are in boldface

<b>Tuesday 16 June</b>	Room P4
9.05 – 9.15	Welcome message
9.15 – 10.00	<b>Tatjana Eisner</b> - University of Leipzig, Germany - <i>Ergodic Theorems</i>
10.15 – 11.00	<b>Tatjana Eisner</b> - University of Leipzig, Germany - <i>Ergodic Theorems</i>
11.00 – 11.30	Coffee Break
11.30 – 12.10	Sergiy Plaksa, Institute of Mathematics of the National Academy of Sciences of Ukraine, <i>Estimates of the modulus of continuity of the logarithmic double layer potential</i>
12.20 – 12.50	Marianna Chatzakou, Ghent University, Belgium, <i>Geometric Hardy inequalities on the Heisenberg groups via convexity</i>
<b>Lunch</b>	
15.00 – 15.30	Ivan Yuri Violo, Università degli Studi di Pisa, Italy, <i>Regularity of non-linear elliptic equations in metric spaces</i>
15.40 – 16.10	Roberto Bramati, Università di Bergamo, Italy, <i>Discrepancy for non-smooth convex bodies in high dimensions</i>
16.20 – 16.50	Tommaso Bertin, Impan (Varsavia), Polonia, <i>Lavrentiev Phenomnon and integral representation of the lower semicontinuous envelope for functionals with non-convex and non-continuous Lagrangians</i>
17.00 – 17.30	Paolo Luzzini, Università del Piemonte Orientale, Italy, <i>Shape sensitivity of Neumann-Poincaré eigenvalues</i>
17.40 – 18.10	Vladislav Rykhlov, Lomonosov Moscow State University, Russia, <i>Semiclassical Spectral Series of Schrödinger Operator with Delta-Potential on Surfaces of Revolution</i>

<b>Wednesday 17 June</b>	Room P4
9.15 – 10.00	<b>Tatjana Eisner</b> - University of Leipzig, Germany - <i>Ergodic Theorems</i>
10.15 – 11.00	<b>Tatjana Eisner</b> - University of Leipzig, Germany - <i>Ergodic Theorems</i>
11.00 – 11.30	Coffee Break
11.30 – 12.15	<b>Alessandro Savo</b> - Sapienza Università di Roma, Italy - <i>Spectral Geometry of Differential forms</i>
12.25 – 13.05	James Wright – The University of Edinburgh, UK – <i>A pointwise ergodic theorem along the prime</i>
<b>Lunch</b>	
15.30 – 17.30	<b>Excursion:</b> Visit Palazzo Bo'. Meeting in room P4 at <b>15.30</b> .
20.00 –	<b>Social Dinner</b>

<b>Thursday 18 June</b>	Room P4
9.15 – 10.00	<b>Tatjana Eisner</b> - University of Leipzig, Germany - <i>Ergodic Theorems</i>
10.15 – 11.00	<b>Alessandro Savo</b> - Sapienza Università di Roma, Italy - <i>Spectral Geometry of Differential forms</i>
11.00 – 11.30	Coffee Break
11.30 – 12.15	<b>Alessandro Savo</b> - Sapienza Università di Roma, Italy - <i>Spectral Geometry of Differential forms</i>
12.25 – 13.05	Anatoly Golberg, Holon Institute of Technology, Israel. <i>Absolute continuity beyond one dimension: Sobolev, metric, and distortion perspectives</i>
<b>Lunch</b>	
15.00 – 15.30	Tirumala Venkata Chakradhar, University of Bristol, United Kingdom, <i>Lower bounds for the Hodge Laplacian spectrum on non-convex domains,</i>
15.40 – 16.10	Francesco Ferraresso, University of Verona, Italy, <i>Geometric (in)stability for the Maxwell's spectrum</i>
16.20 – 16.50	Miltiadis Paschalis, University of Athens, Greece, <i>Topological variations in the Einstein-Hilbert functional</i>
17.00 – 17.30	Luigi Provenzano, Sapienza Università di Roma, Italy, <i>An isoperimetric inequality for the second Neumann eigenvalue on the sphere</i>
17.40 – 18.10	Daniel Raom, Sapienza University of Rome, Italy, <i>Geometric properties of positive solutions of <math>-\Delta u = up</math> on convex domains of <math>S^2</math></i>

<b>Friday 19 June</b>	Room P4
9.15 – 10.00	<b>Alessandro Savo</b> - Sapienza Università di Roma, Italy - <i>Spectral Geometry of Differential forms</i>
10.15 – 11.00	<b>Alessandro Savo</b> - Sapienza Università di Roma, Italy - <i>Spectral Geometry of Differential forms</i>
11.00 – 11.30	Coffee Break
11.30 – 12.10	Sergei Rogosin and Maryna Dubatovskaya, Belarusian State University, Belarus, <i>On solution of a system of two R-linear conjugation problem</i>
12.20 – 12.50	Rebecca Sempio, University of Padova, <i>Extremal problems for symmetric functions of the first three Maxwell eigenvalues</i>
<b>Lunch</b>	
15.00 – 15.40	Mirela Kohr, Babeş-Bolyai University, Romania, <i>Well-posedness of a generalized Stokes operator on some non-compact manifolds via layer-potentials</i>

**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.