

# Workshop for Young Researchers in Mathematics

10th edition, May 20-21, 2021

## ALGEBRA, GEOMETRY, NUMBER THEORY & TOPOLOGY – SCHEDULE –

Thursday, May 20

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| 8:50        | Opening remarks & login to Zoom. Welcome to WYRM2021!                                                                                                                               |
| 9:00-9:45   | <b>Emil Horobet</b> , Universitatea Sapiientia<br><i>The critical curvature degree of an algebraic variety</i>                                                                      |
| 9:45-10:30  | <b>Alexandra Otiman</b> , University of Florence & IMAR<br><i>Special non-Kähler metrics on solvmanifolds</i>                                                                       |
| 10:30-10:45 | Morning Coffee Break                                                                                                                                                                |
| 10:45-11:30 | <b>Mihai-Silviu Lazorec</b> , Universitatea “Alexandru Ioan Cuza” din Iasi<br><i>New criteria for nilpotency and solvability of a finite group</i>                                  |
| 11:30-12:15 | <b>Andrei Bud</b> , Humboldt University Berlin<br><i>Maximal gonality on strata of differentials</i>                                                                                |
| 12:15-14:00 | Lunch Break                                                                                                                                                                         |
| 14:00-14:45 | <b>Vlad Matei</b> , Tel Aviv University<br><i>Counting pairs of curves over <math>\mathbb{F}_q</math> with a prescribed number of <math>\mathbb{F}_q</math>-intersection points</i> |
| 14:45-15:30 | <b>Liana Heuberger</b> , Université d’Angers<br><i><math>Q</math>-Fano constructions using Laurent inversion</i>                                                                    |
| 15:30-15:45 | Afternoon Coffee Break                                                                                                                                                              |
| 15:45-16:30 | <b>Martin Palmer-Anghel</b> , IMAR<br><i>Representations of the Torelli group via the Heisenberg group</i>                                                                          |
| 16:30-17:15 | <b>Mihai Fulger</b> , University of Connecticut<br><i>Nef classes on self-products of curves</i>                                                                                    |
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Friday, May 21

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| 8:50        | Login to Zoom.                                                                                                |
| 9:00-9:45   | <b>Miron Stanciu</b> , Universitatea din Bucuresti & IMAR<br><i>Coverings of LCK complex spaces</i>           |
| 9:45-10:30  | <b>Ovidiu Preda</b> , IMAR<br><i>Vaisman's theorem for LCK complex spaces</i>                                 |
| 10:30-10:45 | Morning Coffee Break                                                                                          |
| 10:45-11:30 | <b>Cipriana Anghel</b> , IMAR<br><i>Heat Kernel Asymptotics for real powers of Laplacians</i>                 |
| 11:30-12:15 | <b>Rares Stan</b> , IMAR<br><i>Selberg Trace Formula on compact Riemann surfaces</i>                          |
| 12:15-12:30 | Virtual Photo Session                                                                                         |
| 12:30-14:00 | Lunch Break                                                                                                   |
| 14:00-14:45 | <b>Miruna-Stefana Sorea</b> , SISSA<br><i>Disguised Toric Dynamical Systems</i>                               |
| 14:45-15:30 | <b>Mihai-Cosmin Pavel</b> , University of Lorraine<br><i>A moduli space for pure slope-semistable sheaves</i> |
| 15:30-15:45 | Afternoon Coffee Break                                                                                        |
| 15:45-16:30 | <b>Claudiu Raicu</b> , University of Notre Dame<br><i>Euler obstructions for the Lagrangian Grassmannian</i>  |
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