

# Workshop for Young Researchers in Mathematics

13th edition, May 23-24, 2024

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

All talks will be held in the Myller Amphitheater.

Thursday, May 23

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| 9:50        | Welcome to WYRM2024!<br>Opening remarks by Prof. Dr. Răzvan Lițcanu in the Myller Amphitheater  |
| 10:00-10:30 | <b>Miruna-Ștefana Sorea</b> , Lucian Blaga University of Sibiu<br><i>Combinatorial study of morsifications of real univariate singularities</i> |
| 10:30-11:00 | <b>Mihai Pavel</b> , IMAR<br><i>Semistability conditions defined by ample classes</i>   |
| 11:00-11:30 | Morning Coffee Break  |
| 11:30-12:00 | <b>Francesco Navarra</b> , Sabanci University<br><i>On the switching rook polynomial of frame polyominoes</i>                                   |
| 12:00-12:30 | <b>Irene Macías Tarrío</b> , University of Barcelona<br><i>Brill-Noether Theory of vector bundles on surfaces</i>                               |
| 12:30-14:30 | Lunch Break   |
| 14:30-15:00 | <b>Cristian Ciulică</b> , University of Bucharest<br><i>Special non-Kähler metrics on Endo-Pajitnov manifolds</i>                               |
| 15:00-15:30 | <b>Miron Stanciu</b> , University of Bucharest & IMAR<br><i>Special non-Kähler metrics on solv and nilmanifolds</i>                             |
| 15:30-16:00 | Afternoon Coffee Break  |
| 16:00-16:30 | <b>Ștefan Andronic</b> , Alexandru Ioan Cuza University<br><i>Gap results for biharmonic submanifolds in Euclidean spheres</i>                  |
| 16:30-17:00 | <b>Lorenzo Sauras Altuzarra</b> , IMAR & Vienna University of Technology<br><i>Geometry of the factors of Fermat numbers</i>                    |
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| 10:00-10:30 | <b>Martin Palmer-Anghel</b> , IMAR<br><i>Do the dual Miller-Morita-Mumford classes vanish in the homology of the big mapping class group?</i>                                       |
| 10:30-11:00 | <b>Cipriana Anghel</b> , Mathematisches Institut Göttingen & IMAR<br><i>On the spectrum of the Dirac operator on degenerating Riemannian surfaces and the Selberg Zeta function</i> |
| 11:00-11:30 | Morning Coffee Break  |
| 11:30-12:00 | <b>Cameron Ruether</b> , IMAR<br><i>Quadratic Pairs over Schemes and the Canonical Quadratic Pair on Clifford Algebras</i>  |
| 12:00-12:30 | <b>Andrei Stoenică</b> , University of Bucharest<br><i>Brill-Noether loci on Enriques surfaces</i>  |
| 12:40       | Group Photo – @ the fountain entrance   |
| 12:45-14:30 | Lunch Break   |
| 14:30-15:00 | <b>Georgiana Fasola</b> , Alexandru Ioan Cuza University<br><i>On the Chermak-Delgado lattice of a finite group</i>   |
| 15:00-15:30 | <b>Teodor-Ioan Grigorescu</b> , University of Bucharest<br><i>Far-flung Gorenstein numerical semigroup rings</i>  |
| 15:30-16:00 | Afternoon Coffee Break  |
| 16:00-16:30 | <b>Andrei Benguş-Lesnier</b> , IMI – Bulgarian Academy of Sciences<br><i>Milnor formula for smoothable curve singularities</i>  |
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