

ANALYSIS, GEOMETRY AND TOPOLOGY DEPARTMENT

ANNUAL SCIENTIFIC SESSION 2022

20 December 2022, IMI – Room 478

Chair: N. Nikolov

- 11:30** Opening
- 11:35** O. Muskarov – Maximally non-integrable almost complex structures
- 11:50** J. Davidov – Pseudo-harmonic Hermitian structures on Weyl manifolds
- 12:05** M. Genov – On the Jacobian conjecture in characteristic 0 for certain polynomial maps of degree 2 and 3
- 12:20** A. Rangachev – An algebraic formula for the Milnor number of a curve singularity
- 12:35** S. Barov – On exposed points of closed and convex sets in \mathbb{R}^n
- 12:50** Break

Chair: V. Milousheva

- 13:30** V. Kiryakova, J. Paneva-Konovska – Multi-index Le Roy functions of Mittag-Leffler-Prabhakar type
- 13:45** E. Bazhlekova – Properties of the relaxation modulus for generalizations of the Zener model
- 14:00** I. Dimovski, Yu. Tsankov – Nonlocal analogues of the Lidstone polynomials

14:15 Zh. Atanassov – On some solved and being solved problems of ordinary and functional differential equations and dynamical systems

14:30 S. Tersian – Homoclinic solutions of nonlinear Laplacian difference equations without Ambrosetti-Rabinowitz condition

Chair: O. Muskarov

14:45 S. Hakkaev – Spectral stability of compactons

15:00 P. Petrov – A generalization of Drinfeld-Grinberg-Kazhdan theorem

15:15 S. Ivanov – The CR Almost Schur Lemma and the positivity conditions

15:30 N. Nikolov – Comparison and localization of invariant functions on strongly pseudoconvex domains