

ANALYSIS, GEOMETRY AND TOPOLOGY DEPARTMENT
ANNUAL SESSION 2018

11 December 2018, IMI – Hall 478

Chair: *O. Muskarov*

10:00 Opening

10:15 *V. Kiryakova* – On some derivatives' definitions – “new” and “fractional”, or not so?

10:30 *Z. Tomovski (Skopje)* – On the Hilfer-Prabhakar fractional derivatives

10:45 *J. Paneva-Konovska* – Fractional calculus in a class of Bessel type functions

11:00 *E. Bazhlekova* – Subordination principle for fractional evolution equations

11:15 Coffee Break

Chair: *V. Kiryakova*

11:30 *R. Kovacheva* – Overconvergence of subsequences of rows of Pade approximants

11:45 *N. Ikononov* – Scientific applications and achievements in 2018

12:00 *Z. Atanasov* – Non-local properties of perturbed differential systems

12:15 Lunch Break

Chair: *R. Kovacheva*

- 13:30** *O. Muskarov* – Complex submanifolds of almost complex manifolds
- 13:45** *S. Ivanov* – Formality and Sasaki-Einstein 7-manifold with no 3-Sasaki structure
- 14:00** *P. Petrov* – Scissors congruence in the Grothendieck ring
- 14:15** *S. Barov* – Reconstruction of compact sets in \mathbb{R}^2
- 14:30** Coffee Break

Chair: *G. Ganchev*

- 14:45** *N. Nikolov* – Comparison of the Bergman kernel and the Caratheodory-Eisenman volume
- 15:00** *S. Tersian* – Existence of infinitely many solutions of problems for p-Laplacian differential equations via variational method
- 15:15** *A. Rangachev* – Generalizing the notion of smoothness
- 16:00** Party