

Czech-Georgian Workshop on Boundary Value Problems

May 27, 2019 — May 30, 2019, Brno

Program

Monday, 27 May 2019

18:00 *Arrival*
Social program

Tuesday, 28 May 2019

- 9:00 **Nino Partsvania** On the Cauchy-Nicoletti weighted problem for nonlinear singular functional differential systems
- 10:00 **Petr Girg** p -Laplacian — history, mathematical models from hydrology and natural gas extraction, experiments
- 11:00 **Jiří Benedikt** p -Laplacian — maximum and comparison principles, uniqueness versus nonuniqueness
- 12:00 *Lunch*
- 13:00 **Lukáš Kotrla** p -Laplacian — applications of the theory to mathematical models
- 14:00 **María Guadalupe Morales Macías** Fractional initial value problem

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Wednesday, 29 May 2019

9:00	Zaza Sokhadze	Oscillatory properties of solutions of higher order nonlinear functional differential equations
10:00	Jakub Janoušek	Bifurcation of periodic solutions in a nonlinear model of a suspension bridge with variable cable stiffness
11:00	Manuel Zamora	Periodic motions of the Kepler's problem on S^2
12:00	<i>Lunch</i>	
13:00	Jiří Šremr	Differential equations in modelling motion of dislocations
14:00	Robert Hakl	Positive solutions to boundary value problems for systems of linear functional differential equations

Thursday, 30 May 2019

10:00	Irina Astashova	On the power-law and non-power-law asymptotic behavior of blow-up solutions to nonlinear higher-order Emden-Fowler type equations in dependence of the spectrum of connected Jacobi matrix
11:00	<i>Round table, discussion</i>	
12:00	<i>Lunch</i>	