

Tuesday, June 23rd, 2015

**19:00 - ... _ arrival
supper**

Wednesday, June 24th, 2015, Seminar day dedicated to Šárka Nečasová on occasion of her 18th birthday

7:30-8:30 breakfast

8:50-9:00 Welcome

CHAIR: Luboš Pick

9:00-10:00 Pavel Drábek
Singular quasilinear elliptic problems on unbounded domains

10:10-11:10 Šárka Nečasová
Diffusion and low Mach number limits in a model of radiative flow

11:10-11:25 coffee break

11:25-11:50 Jana Kopfová
Models of fatigue accumulation in elasto-plastic materials

11:50-12:15 Elžbieta Motyl
Time-dependent Navier-Stokes equations with deterministic and random forces

12:30-14:00 lunch

CHAIR: Grzegorz Łukaszewicz

17:00-17:25 Lenka Slavíková
Almost-compact embeddings between Banach function spaces

17:25-17:40 Tomáš Roskovec
Typicality of $\$J_f=0\$$ almost everywhere for homeomorphisms in the plane

17:40-17:55 coffee break

17:55-18:05 Vit Musil
Optimality of Orlicz spaces in Sobolev embeddings

18:05-18:20 Filip Soudský
Embeddings between classical Lorentz spaces of type γ defined with respect to two possibly different weighted integral means

18:20-18:35 Raj Narayan Dhara
Existence of the solution of degenerated PDEs in weighted Sobolev spaces with non-homogeneous boundary condition

19:00- dinner

Thursday, June 25th, 2015

7:30-8:45 breakfast

CHAIR: Pavel Drábek

9:00-10:00 Pavel Krejčí

Unsaturated fluid flow interacting with a deformable porous medium

10:10-11:10 Luboš Pick

Marcinkiewicz theorems for Orlicz spaces (a tribute to great Polish mathematicians)

11:10-11:25 coffee break

11:25-12:25 Stanislav HencI

Sobolev homeomorphism that cannot be approximated by diffeomorphisms in $W^{1,1}$

12:40-14:00 lunch

14:30- excursion

19:00- bonfire

Friday, June 26th, 2015, Seminar day dedicated to Grzegorz Łukaszewicz on occasion of his 18th birthday

7:30-8:45 breakfast

CHAIR: Pavel Krejčí

9:00-10:00 Bohumir Opíc

Embeddings of Sobolev-type spaces into generalized Hölder spaces involving Φ -modulus of smoothness

10:10-11:10 Grzegorz Łukaszewicz

Attractors in some problems of fluid mechanics

11:10-11:25 coffee break

11:25-12:25 Amiran Gogatishvili

Weighted iterated Hardy-type inequalities

12:40-14:00 lunch

16:30-17.00 poster session

CHAIR: Šárka Nečasová

17:00-17:25 Jan Burczak

Smoothness of Keller-Segel systems with critical diffusions

17:25-17:50 Ushangi Goginava

On the convergence of double Fourier series of functions of bounded partial generalized variation

17:50-18:05 coffee break

18:05-18:20 Mateo Caggio

Inviscid incompressible limits for rotating fluids

18:20-18:35 Robert Krawczyk

Homoclinic orbits for an almost periodically forced singular Newtonian system in \mathbb{R}^3

18:35-18:50 Hanna Guze

Symmetry-breaking bifurcation for free elastic shell of biological cluster

19:15- dinner

Saturday, June 27th, 2015

7:30-8:45 breakfast

CHAIR: Stanisław Migórski

9:00-10:00 Henryk Leszczyński
Singularities in ternary diffusion models

10:10-10:35 Lucjan Sapa
Existence and uniqueness of a weak solution to the Nernst-Planck-Poisson system

10:35-11:00 Sylwia Dudek (Barnaś)
Hardy inequality in variable exponent spaces derived from nonlinear problem

11:00-11:15 coffee break

11:15-11:40 Jarosłwa Duda
Topological soliton models - electric charge as topological charge

11:40-11:55 Justyna Ogorzały
Penalization method for a class variational-hemivariational inequalities with history operator

11:55-12:10 Igor Kossowski
First order systems of ODEs with nonlinear nonlocal boundary conditions

12:30-14:00 lunch

CHAIR: Bogdan Przeradzki

17:00-17:25 Aleksandra Orpel
Positive solutions of elliptic problems with a singular nonlinearity

17:25-17:40 Katarzyna Mazowiecka
Singularities of biharmonic maps

17:40-17:55 coffee break

17:55-18:10 Michał Łasica
A very singular parabolic equation

18:10-18:25 Jan Peszek
Interaction of particles through a singular potential

19:15- dinner

Sunday, June 28th, 2015

7:30-9:00 breakfast

10:30- departure