



## Session 7

### SPACES OF DIFFERENTIABLE FUNCTIONS OF SEVERAL REAL VARIABLES AND APPLICATIONS

Organizers: V. Burenkov (Cardiff/Astana), S. Samko (Faro)  
W. Mituszew

**Room: 424N**

**Monday, August 5**

Chair: S. Samko

14.30-15.15

V. Kokilashvili, Approximation of periodic functions in non-standard Banach function spaces

15.15-15.55

A. Meskhi, Boundedness and compactness criteria for positive kernel operators in variable exponent Lebesgue spaces

15.55-16.20 Coffee break

Chair: V. Kokilashvili

16.20-17.00 V. Rabinovich

Potential type operators in weighted variable exponent spaces on some Carleson curves

17.00-17.30 A. Almeida

Riesz and Wolff potentials in variable exponent Lebesgue spaces

17.30-18.00 H. Rafeiro

Riesz type potential operators in generalized grand Morrey spaces



18.00-18.30 A. Gurkani  
The amalgam spaces and boundedness of Hardy-Littlewood maximal operators

18.30-19.00 I. Aydin

On a progress in the theory of variable exponent amalgam spaces

## Tuesday, August 6

Chair: V. Rabinovich

12.10-12.40 K. Matsuoka

$B_s$  function spaces and Calderon-Zygmund operators

12.40-13.10 Sh. Tetunashvili

Cantor integrals and reconstruction of coefficients of a multiple function Series with Lebesgue non-integrable sum

Chair: L. Maligranda

14.30-15.15 V. Burenkov

Description of the interpolation spaces for general local Morrey-type spaces

15.15-16.00 P. Lamberti

Stability for higher order elliptic operators subject to homogeneous boundary conditions on varying domains

16.00-16.30 Coffee break

Chair: P. Lamberti

16.30-17.00 L. Provezano



On the spectral behavior of the Neumann Laplacian under mass density perturbation

17.00-17.30 D. Buoso

Spectral perturbation for vibrating plate models

17.30-18.00 C. Unal

Prescribed asymptotic behavior of solutions of nonlinear second--order dynamic equations

## Thursday, August 8

Chair: V. Goldstein

12.10-12.40 T. Tararykova

Hardy-type inequality for  $0 < p < 1$  and hypodecreasing functions

12.40-13.10 . N.Bokayev, Z. Suleimenova

On multiple dyadic Hardy and Hardy-Littlewood operators

Chair: A. Meskhi

14.30-15.15 V.Goldstein

Conformal Weights on Sobolev Spaces

15.15-15.45 A. Ukhlov

Conformal composition operators on Sobolev spaces and Brennan's conjecture

15.45-16.15 Coffee break

Chair: V. Burenkov



16.15-17.00 L. Maligranda

Structure of Cesaro function spaces and interpolation

17.00-17.30 E. Smailov

Embedding theorem of different metrics in Morrey spaces

17.30-18.00 A.Sandikci

On the inclusions of some Lorentz mixed normed spaces and Wiener-Ditkin sets