

Modern Methods of Time-Frequency Analysis II

September 10 - December 15, 2012

Organized by: Hans Georg Feichtinger and Karlheinz Gröchenig

Workshop on “Applied Coorbit Theory”: September 17 - 21

Organized by: Stephan Dahlke and Hans Georg Feichtinger

- **Monday, September 17, 2012**

10:00: Opening and joint registration

10:30 – 11:30: Morten Nielsen

Decomposition type smoothness spaces

11:30 – 11:45: coffee break

11:45 – 12:15: Philipp Grohs

On the structure of anisotropic frames

12:15 – 12:45: Benjamin Scharf

Wavelets for reinforced function spaces on cubes

12:45 – 15:00: lunch break

15:00 – 15:30: Wen Yuan

Function Spaces of Besov-type and Triebel-Lizorkin-type

15:30 – 16:00: Jan Vybiral

Non-smooth atomic decompositions and applications to traces and pointwise multipliers

- **Tuesday, September 18, 2012**

10:00 – 11:00: Gérard Kerkyacharian

From Statistical estimation to frame construction: The heat kernel point of view G. Kerkyacharian [joint work with T. Coulhon, P. Petrushev]

11:00 – 11:30: coffee break

11:30 – 12:00: Pencho Petrushev

Besov and Triebel-Lizorkin spaces in the general framework of Dirichlet spaces

12:00 – 12:30: George Kyriazis

On the construction of bases and frames for general distribution spaces

12:30 – 14:30: lunch break

14:30 – 15:00: Tino Ullrich

Generalized Coorbit Space Theory for Quasi-Banach Spaces

15:00 – 15:30: Catherine Schnackers

Modulation spaces associated to Orlicz spaces and mixed-norm Orlicz spaces

18:10 – 21:10: Social event at NuHAG, Alserbachstrasse 23

- **Wednesday, September 19, 2012**

10:00 – 11:00: Gabriele Steidl

Shearlet Coorbit Spaces

11:00 – 11:30: coffee break

11:30 – 12:00: Gerd Teschke

Coorbit theory, multi-alpha-modulation frames and the concept of structured sparsity for medical multi-channel imaging

12:00 – 12:30: José Luis Romero

Phase space covers

12:30 – 14:30: lunch break, free afternoon

- **Thursday, September 20, 2012**

10:00 – 11:00: Ernesto De Vito

Reproducing formula associated with symbols

11:00 – 11:30: coffee break

11:30 – 12:00: Filippo De Mari

Quadratic symbols: metaplectic reproducing groups

12:00 – 12:30: Jens Gerlach Christensen

On the use of smooth vectors in coorbit theory

12:30 – 14:30: lunch break

14:30 – 16:55: Hans Georg Feichtinger

The landscape of COORBIT THEORY: known and less known territories: moderated discussion

- **Friday, September 21, 2012**

09:30 – 10:30: Hartmut Führ

Coorbit spaces and wavelet coefficient decay over general dilation groups

10:30 – 11:00: Yoshihiro Sawano

A new framework for generalized Besov-type and Triebel-Lizorkin-type spaces

11:00 – 11:30: coffee break

11:30 – 12:00: Margit Pap

Better atomic decomposition results in the weighted Bergman spaces by applying the unified approach of the atomic decompositions of Feichtinger and Groechenig

12:00 – 12:30: Luis Daniel Abreu

Can you hear the shape of a localization domain?

All lectures take place in the ESI Boltzmann Lecture Hall

For further information visit: www.nuhag.eu/esi12