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Seminar Scientific Computing

Each semester we have our weekly seminar. Talks are given by Bachelor students who present their thesis topic or people from our local math department, reporting on their newest research. Occasionally, we also have a guest of Prof. Pfander giving a talk. Everybody who is interested is warmly welcome. The seminar typically takes place from 14:00 to 16:00 in room KGA-101.

Program (WS 2018/2019)

Date	Speaker	Title
25 October 2018	Prof. Dr. Ilya Krishtal (Northern Illinois University)	Banach algebra methods for frame theory part I
15 November 2018	Prof. Dr. Ilya Krishtal (Northern Illinois University)	Banach algebra methods for frame theory part II
21 November 2018	Prof. Dr. Ilya Krishtal (Northern Illinois University)	Banach algebra methods for frame theory part III
29 November 2018	Prof. Dr. Ilya Krishtal (Northern Illinois University)	Banach algebra methods for frame theory part IV
05 December 2018	Prof. Dr. Ilya Krishtal (Northern Illinois University)	Banach algebra methods for frame theory part V
06 December 2018	Prof. Dr. Ilya Krishtal (Northern Illinois University)	Banach algebra methods for frame theory part VI
13 December 2018	Prof. Dr. Ilya Krishtal (Northern Illinois University)	Banach algebra methods for frame theory part VII

2018	University)	Banach algebra methods for frame theory part VII
24 January 2019	<u>Dominik Stoeger</u> (TU Munchen)	The convex geometry of blind deconvolution
31 January 2019	<u>Goetz Pfander</u> (KU Eichstaett)	Exponential bases for partitions of intervals
07 February 2019	<u>Rima Alaifari</u> (ETH Zurich)	Adversarial examples by means of deformations
13 March 2019	<u>Hans Feichtinger</u>	Time frequency analysis of stochastic processes
14 March 2019	<u>Hans Feichtinger</u>	Time frequency analysis of stochastic processes part II
19 March 2019	<u>Hans Feichtinger</u>	Gabor multipliers and modulation spaces

Program (SS 2018)

Date	Speaker	Title
18 April 2018	<u>Dr. Friedrich Philipp</u> (KU Eichstätt)	Frame Orbits of Linear Operators
24 April 2018	<u>Prof. Dr. Felix Krahmer</u> (TU Munich)	On the connection between A/D conversion and the roots of Chebyshev polynomials
02 May 2018	<u>Prof. Dr. Peter Singer</u> (Technische Hochschule Ingolstadt)	Characerization of Fourier and Wavelet Transforms by their scaling behaviour
09 May 2018	<u>Dr. Friedrich Philipp</u> (KU Eichstätt)	Frame Orbits of Linear Operators: Proofs
16 May		

10 May 2018	Sister Johanna (KU Eichstätt)	Classification of subfactors: An overview
23 May 2018	Stefan Pautze	Cyclotomic Aperiodic Substitution Tilings
29 May 2018	Ilya Krishtal (Northern Illinois University)	Dynamical sampling and phaseless reconstruction
30 May 2018	Philipp Petersen (TU Berlin)	Neural Networks and Partial Differential Equations: Challenges and Opportunities
13 June 2018	Nicki Holighaus (Acoustic Research Institute , Vienna)	Aspects of warped time-frequency representations

Program (WS 2017/18)

Date	Speaker	Title
21.11.2017	H. Bayindir	Trigonometric Approximation
05.12.2017	Prof. Hans-Peter Blatt (KU)	Potential Theoretical Aspects in Constructive Function Theory
12.12.2017	Prof. Jeffrey Hogan (Univ. of Newcastle)	On the Search for Multidimensional Wavelets (Abstract)
19.12.2017	Prof. Götz E. Pfander (KU)	Boundedness of Pseudodifferential Operators on Modulation Spaces (Abstract)
09.01.2018	Dr. Nada Sissouno (TU München)	Recovery of dynamical systems using compressed sensing
16.01.2018	Dr. Friedrich Philipp (KU)	On the Jordan Structure of Finite Rank Perturbations of Linear Relations (Abstract)
23.01.2018	Andrei Caragea (KU)	Spaceability of subsets of Banach spaces
30.01.2018	Dr. Volker Pohl (TU München)	On the possibility to calculate the Hilbert Transform on digital computers
06.02.2018	Dr. Friedrich Philipp (KU)	Sums of frame sequences
13.02.2018	Amit Chaulwar (CARISSMA, Technischen Hochschule Ingolstadt)	Hybrid Statistical Learning Methods for the Embedded-Implementation of Vehicle Safety Functions (Abstract)
13.02.2018	Parthasarathy Nadarajan (CARISSMA, Technischen Hochschule Ingolstadt)	Efficient Design and Validation of Vehicle Safety Systems based on Predicted Occupancy Grids and Statistical Learning (Abstract)

Program (SS 2017)

Date	Speaker	Title
09.05.2017	Weiqi Zhou (KU)	Irregular orthonormal Gabor basis on prime dimensions

16.05.2017	Dr. Dae Gwan Lee (KU)	Extra invariance of Gabor spaces and the Balian-Low theorem
23.05.2017	Andrei Caragea (KU)	Additional invariance of Gabor spaces generated by $Z \times PZ$ and continuity of Zak transform
08.06.2017	Andrei Caragea (KU)	The classical Balian-Low theorem and additional time-frequency shifts in the Gabor space over $Z \times PZ$
20.06.2017	Dr. Friedrich Philipp (KU)	Dynamical sampling on finite index sets
27.06.2017	Prof. René Grothmann (KU)	Some problems in approximation theory
29.06.2017	Andrei Caragea (KU)	Additional time-frequency shift by $(1/2, 0)$ for Gabor spaces over $Z \times 3Z$
11.07.2017	Andrei Caragea (KU)	Finite uncertainty product and additional rational time-frequency shifts for a Gabor space
25.07.2017	Dr. Van Kien Nguyen (Friedrich-Schiller-Universität Jena)	Besov spaces of dominating mixed smoothness and Gelfand numbers