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Bachelor- und Oberseminar Wissenschaftliches Rechnen

Jedes Semester findet wöchentlich unser Bachelor- und Oberseminar statt. Die Vortragenden sind entweder Bachelor-Studenten, die ihr Abschlussthema vorstellen, oder Mitglieder des Fachbereichs, die über ihre aktuellen Forschungsergebnisse berichten. Gelegentlich trägt auch ein Gast von Herrn Prof. Pfander vor. Alle Interessenten sind herzlich eingeladen. Das Seminar findet dienstags von 16:00-18:00 im KGA-101 statt.

Programm (SS 2019)

| Datum | Vortragender | Titel |
|--------|---|--|
| 30.04. | Dr. Friedrich Philipp (KU Eichstätt) | Relatively bounded perturbations of J -nonnegative operators |
| 07.05. | <u>Prof. Dr. Holger Rauhut (RWTH Aachen)</u> | Linear and one-bit Compressive Sensing with subsampled random convolutions |
| 14.05. | Dr. Felix Voigtlaender | On some estimates in OFDM |
| 21.05. | <u>PD Dr. Tijana Janjic (LMU München)</u> | Data Assimilation and Conservation Laws |
| 28.05. | Jordy van Velthoven | Balian-Low type theorems on homogeneous groups |
| 18.06. | <u>Prof. Dr. Holger Boche (TU München)</u> | tba |
| 25.06. | | |
| 02.07. | <u>Prof. Dr. Ilya Krishtal (Northern Illinois University)</u> | A Prony-Laplace method for the recovery of burst-like forcing terms |
| 16.07. | <u>Boris Bittner (Hochschule für angewandte Wissenschaften Würzburg-Schweinfurth)</u> | On Riesz and Schauder bases of exponentials |
| 23.07. | | |

Programm (WS 2018/2019)

| Datum | Vortragender | Titel |
|------------------|---|--|
| 25. Oktober 2018 | <u>Prof. Dr. Ilya Krishtal</u> (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. Dezember 2018 [Prof. Dr. Ilya Krishtal](#) (Northern Illinois University) Banach algebra methods for frame theory part V
06. Dezember 2018 [Prof. Dr. Ilya Krishtal](#) (Northern Illinois University) Banach algebra methods for frame theory part VI
13. Dezember 2018 [Prof. Dr. Ilya Krishtal](#) (Northern Illinois University) Banach algebra methods for frame theory part VII
24. Januar 2019 [Dominik Stoeger](#) (TU Munchen) The convex geometry of blind deconvolution
31. Januar 2019 [Goetz Pfander](#) (KU Eichstaett) Exponential bases for partitions of intervals
07. Februar 2019 [Rima Alaifari](#) (ETH Zurich) Adversarial examples by means of deformations
13. Maerz 2019 [Hans Feichtinger](#) Time frequency analysis of stochastic processes
14. Maerz 2019 [Hans Feichtinger](#) Time frequency analysis of stochastic

19. Maerz
2019

Hans Feichtinger

Gabor multipliers and modulation spaces

Programm (SS 2018)

| Datum | Vortragender | Titel |
|-------------------|--|--|
| 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 München) | On the connection between A/D conversion and the roots of Chebyshev polynomials |
| 02. Mai 2018 | <u>Prof. Dr. Peter Singer</u> (Technische Hochschule Ingolstadt) | Characerization of Fourier and Wavelet Transforms by their scaling behaviour |
| 09. Mai 2018 | <u>Dr. Friedrich Philipp</u> (KU Eichstätt) | Frame Orbits of Linear Operators: Proofs |
| 16. Mai 2018 | Schwester Johanna (KU Eichstätt) | Classification of subfactors: An overview |
| 23. Mai 2018 | <u>Stefan Pautze</u> | Cyclotomic Aperiodic Substitution Tilings |
| 29. Mai 2018 | <u>Ilya Krishtal</u> (Northern Illinois University) | Dynamical Sampling and Phaseless Reconstruction |
| 30. Mai 2018 | <u>Philipp Petersen</u> (TU Berlin) | Neural Networks and Partial Differential Equations: Challenges and Opportunities |
| 13. Juni 2018 | <u>Nicki Holighaus</u> (<u>Institut für Schallforschung</u>) | Aspects of warped time-frequency representations |

Programm (WS 2017/18)

| Datum | Vortragender | Titel |
|------------|--------------|-----------------------------|
| 21.11.2017 | H. Bayindir | Trigonometric Approximation |

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|------------|--|--|
| 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, Technische Hochschule Ingolstadt) | Hybrid Statistical Learning Methods for the Embedded-Implementation of Vehicle Safety Functions (Abstract) |
| 13.02.2018 | Parthasarathy Nadarajan (CARISSMA, Technische Hochschule Ingolstadt) | Efficient Design and Validation of Vehicle Safety Systems based on Predicted Occupancy Grids and Statistical Learning (Abstract) |