

Minisymposium 3

Approximierungsmethoden und schnelle Algorithmen

Ralf Hielscher (Chemnitz), Stefan Kunis (Osnabrück)

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Mittwoch, 21. September**Seminargebäude, S26**

- 16:00 Antje Vollrath (Braunschweig)
A new algorithm for fast Fourier transforms on the rotation group
- 17:00 Michael Pippig (Chemnitz)
Parallel fast Fourier transforms and their application to particle simulation
- 17:30 Frank Filbir (München)
Approximation on Manifolds
- 18:00 Brigitte Forster (München)
Polyzyklische Quotienten und nicht-kommutative Gröbner-Basen
- 18:30 Jürgen Prestin (Lübeck)
Quadrature Rules for Scattered Data on Spherical Triangles

Donnerstag, 22. September**Seminargebäude, S26**

- 14:00 Holger Rauhut (Bonn)
Recovery of functions in high dimensions via compressive sensing
- 14:30 Boris N. Khoromskij (Leipzig)
Fourier and convolution transforms of m -tensors in log-volume complexity by quantized TT approximation
- 15:00 Jan Hamaekers (St. Augustin)
HCFFT: A fast Fourier transformation software library for general hyperbolic cross/sparse grid spaces
- 15:30 Lutz Kämmerer (Chemnitz)
Stable interpolation of hyperbolic cross trigonometric polynomials

16:00h – 16:30h Pause

- 16:30 Bastian Harrach (München)
Fast shape-reconstruction in electrical impedance tomography
- 17:00 Florian Boßmann (Göttingen)
Model based image pattern recognition in ultrasonic non destructive testing
- 17:30 Sören Häuser (Kaiserslautern)
Shearlet Coorbit Spaces: Traces and Embeddings
- 18:00 Jürgen Frikel (München)
A new framework for tomographic reconstruction at a limited angular range