Wochenplan der Fakultät für Mathematik

Dienstag, 15.10.2019
16.15 Uhr, IA 1/53
Oberseminar Dynamische Systeme
Simon Allais, Lyon, „Application of generating functions to symplectic and contact rigidity“

Mittwoch, 16.10.2019
16.00-17.00 Uhr, IA 01/473
Kolloquium Algebra Geometrie Kombinatorik
Bernd Sturmfels, Max-Planck-Institut Leipzig, „The Geometry of Gaussoids“

Abstract: Gaussoids offer a new link between combinatorics, statistics and algebraic geometry. Introduced by Lnenicka and Matus in 2007, their axioms describe conditional independence for Gaussian random variables. We explain this theory and how it relates to matroids. The role of the Grassmannian for matroids is now played by a projection of the Lagrangian Grassmannian. We discuss the classification and realizability of gaussoids, and we explore oriented gaussoids, valuated gaussoids, and the analogue to positroids. This is joint work with Tobias Boege, Alessio D'Ali and Thomas Kahle.

Donnerstag, 17.10.2019
16.00 Uhr, IB 3/73
Oberseminar Topologie
Tobias Barthel, MPIM Bonn, „Tensor triangular geometry, revisited“

Abstract: Inspired by the pioneering work of Hopkins, Neeman, and Thomason on the classification of thick subcategories of perfect complexes, Balmer constructed for any tensor triangulated category T a geometric object Spc(T) which parametrizes the global structure of T. The subject of tensor triangular geometry is then to study the interplay between Spc(T) and T abstractly as well as for prominent examples. The first part of this talk will give a quick introduction to tensor triangular geometry through examples from algebra, geometry, and topology. The goal of the second part is to report on joint work in progress with Schlank and Stevenson which revisits and extends Balmer’s framework, by introducing the analogue of affine schemes in the context of (higher) tensor triangular geometry. In particular, we will construct the affine line in this setting.

Montag, 21.10.2019
17-18 Uhr, IC 03/606
RTG 2131-Seminar
Holger Sambale, Bielefeld, „Higher order concentration of measure“

Kaffee 16.30-17 Uhr, IB 1/103

Donnerstag, 24.10.2019
16.00 Uhr, IB 3/73
Oberseminar Topologie
Prof. Dr. Gerd Laures, RUB, „Codes, lattice algebras and all that from the topological viewpoint“
Abstract: The talk illuminates the role of codes and lattice vertex algebras in algebraic topology. These objects come up naturally in relation to string structures or topological modular forms. The talk tries to unify these different concepts in an introductory manner.

RTG 2131-Seminar
Carina Betken, Bochum, „Poisson cylinder processes: concentration inequalities and a CLT for the volume”

RTG 2131-Seminar
Erik Broman, Uppsala (Sweden), „The Poisson cylinder process in Euclidean and Hyperbolic space”

RTG 2131-Seminar
Nina Holden, ETH Zürich (Switzerland), „Cardy embedding of random planar maps”

Kolloquium Algebra Geometrie Kombinatorik
Peter Littelmann, Universität zu Köln, „Towards a Riemann-Roch type character formula“

Kolloquium Algebra Geometrie Kombinatorik
Eric Opdam, Universiteit van Amsterdam, „Square integrable hypergeometric functions for root systems“