

Otto-von-Guericke-Universität Magdeburg
Fakultät für Mathematik

Auf Einladung des Institutes für Algebra und Geometrie spricht

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über das Thema

Cotangent Cohomology for Matroids

Zeit: Dienstag, 16. Januar 2024, 13.00 Uhr, G03-214 oder
per Zoom Meeting ID 971 4945 5855, passcode 490213

Zu diesem Vortrag laden wir alle Interessierten herzlich ein.

Prof. Dr. Thomas Kahle

Abstract: The first cotangent cohomology module T^1 describes the first order deformations of a commutative ring. The second cotangent cohomology module contains the obstructions to lifting such deformations. For Stanley-Reisner rings, these modules have a purely combinatorial description: their multigraded components are given by the relative cohomology of some topological spaces associated to the defining simplicial complex. In this talk I will focus on Stanley-Reisner rings associated to matroids. Among other results, I will show that T^1 provides a new complete characterization for matroids.