Mathematisches Kolloquium

Bitte beachten Sie den geänderten Raum!

Am Freitag, dem 18. Januar 2019 spricht um 14 Uhr c. t. im **Großen Hörsaal, Gebäude E1.5 (MPI-SWS)**

Prof. Dr. Bernd Sturmfels
MPI Leipzig

über das Thema:

Learning Algebraic Varieties from Samples
(Der Vortrag findet im Rahmen des Workshops Theoretical Computer Science and Algebraic Geometry statt.)

Abstract: This lecture addresses the role of algebraic geometry in data science. We discuss work with Paul Breiding, Sara Kalisnik and Madeline Weinstein, aimed at determining a real algebraic variety from a fixed finite subset of points. Existing methods are studied and new methods are developed. Our focus lies on topological and algebraic features, such as dimension and defining polynomials. All algorithms are tested on a range of datasets and made available in a software package in Julia.

Alle Interessenten sind zum Vortrag herzlich eingeladen.

Die Dozenten der Mathematik