



E i n l a d u n g

zum

Kolloquium des Mathematischen Instituts
(unterstützt durch GK Topologie und Metageometrie und
Leibniz-Preis)

und Kolloquium der angewandten Mathematik

am **Mittwoch**, 02.06.2010 um 16:30 Uhr, im Hörsaal **M4**, spricht

Professor Bernd Sturmfels

(University of California Berkeley)

über das Thema:

„Convex Algebraic Geometry“

Abstract:

Convex algebraic geometry is an emerging field at the interface of convex optimization and algebraic geometry. A primary focus lies on the mathematical underpinnings of semidefinite programming. This lecture offers a self-contained introduction. Starting with elementary questions concerning multifocal ellipses in the plane, we move on to discuss the geometry of spectrahedra and orbitopes, and we end with recent results on the convex hull of a real algebraic variety.

Tee wird ab 16 Uhr im SR0 des Mathematischen Instituts serviert.