



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 17. Juni 2025

17 Uhr, Geom H4

Prof. Michael Brown
(Auburn University)

Title:

Ranks of matrix factorizations

Abstract:

A free resolution of a module over a ring is an approximation of the module in terms of simple building blocks, namely free modules. Several of the most important open problems in commutative algebra concern bounds on the ranks of the free modules appearing in free resolutions. I will discuss one such conjecture involving hypersurface rings, and a novel interpretation of this conjecture in terms of algebraic geometry. This is joint work with Mark Walker.

**Vor dem Vortrag (ab 16.30 Uhr) stehen im Foyer vor Hörsaal H4
Kaffee und Tee bereit.**