Mathematisches Kolloquium

Am Freitag, dem 31. Januar 2020, spricht um 14 Uhr c.t. im Hörsaal IV der Fachrichtung Mathematik (Gebäude E2 4)

Prof. Dr. Francois Charles,
Universität Paris-Sud,
über das Thema:
Infinite-dimensional geometry of numbers and integral points

Abstract:
Geometry of numbers originates in the work of Minkowski and consists in the use of lattice-theoretic techniques in number theory. I will explain how one might generalize this to lattices of infinite rank. This will lead us to consider cohomological invariants of lattices as well as nuclear vector spaces.
Geometry of numbers in infinite rank appears when studying spaces of algebraic functions on algebraic varieties defined over the integers. In this context, I will introduce A-schemes and their coherent sheaves, and will give concrete applications to finiteness results for integral points and to results on the approximation of holomorphic functions by polynomials with integral coefficients on algebraic varieties. This is joint work with Jean-Benoit Bost.

Der Gast wird von Prof. Dr. Simon Brandhorst betreut.

Alle Interessenten sind zum Vortrag herzlich eingeladen.
Kaffee und Tee gibt es ab 13.45 Uhr im Konferenzraum der Mathematik (Erdgeschoss, Raum 1.03).

Die Dozenten der Mathematik