



Mathematisches Kolloquium

Am Freitag, dem 22. November 2013 spricht um 14.00 Uhr c. t. im Hörsaal IV der Fachrichtung Mathematik (Gebäude E2 4)

Prof. Dr. Hans-Christian Graf von Bothmer
Universität Hamburg

über das Thema:

Rationality of algebraic hyper surfaces

Abstract: In linear algebra we often solve a linear equation $\sum_{i=1}^n a_i x_i$ by giving a parametrization, for example $x_n = -\sum_{i=1}^{n-1} \frac{a_i}{a_n} x_i$ if $a_n \neq 0$.

Similarly one would like to solve algebraic equations, for example $x^3 + y^3 + z^3 + xyz = 0$ by giving a parametrization of the form $z = \text{polynomial}(x, y)$. Unfortunately this is often impossible.

A more modest question would be to ask whether a parametrization is possible for a given equation and if so find one. Even this question is a surprisingly difficult problem leading to a lot of nice geometry. In this talk I will present classical and modern results as well as open questions on this topic.

Der Gast wird von Prof. Dr. Frank-Olaf Schreyer betreut.

Alle Interessenten sind zum Vortrag herzlich eingeladen.

Kaffee und Tee ab 13.45 Uhr im Konferenzraum der Mathematik (Erdgeschoss, Raum 1.03)

Die Dozenten der Mathematik