UNIVERSITÄT DES SAARLANDES
Naturwissenschaftlich-Technische Fakultät I
Fachrichtung 6.1 Mathematik

Mathematisches Kolloquium

Am Freitag, den 30. November 2012 spricht um 14 Uhr c.t. im Hörsaal IV der Fachrichtung Mathematik (Gebäude E2 4)

Prof. Dr. Johannes Rau
Universität des Saarlandes, Saarbrücken

über das Thema:

Tropical Geometry and Real Agebraic Curves

Abstract: One part of Hilbert's 16th problem (on his famous list) is the topological classification of real algebraic curves in the plane. After 100 years of research, the problem is still unsolved. However, in the meantime various techniques have been developed to construct real algebraic curves with certain topological properties, and these developments are certainly one source (of many) of Tropical Geometry. In the first part of my talk, I would like to give a general overview on the main features of Tropical Geometry — a rather new development in algebraic and symplectic geometry useful in various contexts. In the second part I would like to report on some results concerning Hilbert's 16th problem. In particular, I would to explain how tropical geometry helps to construct certain real algebraic curves.

Alle Interessenten sind zum Vortrag herzlich eingeladen.

Kaffee ab 13.45 Uhr im Konferenzraum der Mathematik   (EG - 1.03)

Die Dozenten der Mathematik