Mathematisches Institut der Universität Bayreuth
Der Geschäftsführende Vorstand
Prof. Dr. Michael Stoll

D-95440 Bayreuth
Tel.: (0921) 55-3387
Fax: (0921) 55-3238
6. Juli 2022

Einladung
zum
Mathematischen Kolloquium

Am Donnerstag, dem 21. Juli 2022, spricht

Herr Prof. Dr. Jan Steffen Müller,
Faculty of Science and Engineering Algebra
Bernoulli Institute
Groningen, The Netherlands
Gast am Lehrstuhl für Computeralgebra
bei Herrn Prof. Dr. Michael Stoll

über das Thema

Rational points on curves: Ancients Greeks, triangles and curves

Abstract

Given a polynomial $F(x, y)$ with rational coefficients, what are the rational solutions of the equation $F = 0$? This question has been studied since the ancient Greeks, but to date no general method is known to resolve this problem. Nowadays, one tackles such problems using a mixture of techniques, including methods from algebraic geometry, p-adic analysis and computer algebra. In my talk, I will discuss this modern point of view, focusing on p-adic analytic techniques. The talk will contain several examples, including a partial solution to a problem posed by Serre.
This is joint work with Jennifer Balakrishnan, Netan Dogra, Jan Tuitman and Jan Vonk.

Beginn: 16.30 Uhr (Kaffee/Tee ab 16.00 Uhr im Seminarraum 748)
Ort: Hörsaal H 17, Gebäude Naturwissenschaften II, Universitätsgelände

gez. M. Stoll