



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 13. Juni 2017

17 Uhr s.t., Geom H4

Prof. Dr. Vladimir Lazić
(Universität des Saarlandes)

How to classify projective manifolds

Abstract:

A fundamental question in algebraic geometry is how to give a meaningful classification of complex projective manifolds in every dimension. The solution to this problem for curves is classical, and for surfaces goes back to the work of the Italian school in the 1920s. A still conjectural classification procedure in higher dimensions (the Minimal Model Program) was initiated by Mori in the 1980s and has yielded a complete classification for projective 3-folds. The Program can be viewed as an algebraic version of Thurston's geometrisation conjecture; in particular, it would imply that every projective manifold can be built of pieces which are either convex, concave or flat. I will describe what we currently know about the Minimal Model Program and what remains to be done.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.