

Einladung zum Würzburger Mathematischen Kolloquium

Julius-Maximilians-Universität Würzburg • Fakultät für Mathematik und Informatik

Prof. Dr. Uwe Jannsen

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Explaining the resolution of singularities

Mittwoch, den 17. Juli 2013 • 16:15 Uhr

Mathematik Ost (Emil-Fischer-Straße 40), Seminarraum SE 40 (Raum 00.001)

Inhaltsangabe

Singularities are known in almost any mathematical theory, and it is always easier if they do not occur. In algebraic geometry, resolution of singularities asks, if one can replace a singular algebraic variety or complex analytic space by a smooth variety or complex manifold which coincides with the starting object in all smooth points. 1964 Hironaka proved that this is possible over the complex numbers and for varieties over a field of characteristic zero.

In number theory and arithmetic geometry, varieties over fields of positive characteristic are very important, but resolution is in general not known, except if the dimension is at most 3.

I will explain the standard process of resolution, so-called blowups, and will explain what the problems are for general resolution.



www.mathematik.uni-wuerzburg.de/kolloquium.html

Zu diesem Vortrag laden wir Sie herzlich ein.
Im Anschluss an die Vorträge Kaffee und Tee im Foyer vor dem SE 40.

Die Dozentinnen und Dozenten der Mathematik

