

# Einladung zum Würzburger Mathematischen Kolloquium

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

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## Metamorphosis of evolution equations

Mittwoch, den 23. Okt 2013 • 16:15 Uhr

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

### Inhaltsangabe

Loewner theory was established in the 1930's by Karl Loewner in order to deal with extremal problems in complex analysis, specifically the Bieberbach conjecture. Such a theory became a cornerstone in geometric function theory, thanks also to the work of P. P. Kufarev and his Russian school on one side and the contributions of Ch. Pommerenke on the other side. In the year 2000 Oded Schramm introduced a stochastic variation of the original Loewner theory which turned out to be very deep and powerful for understanding various problems in physics and probability. At the same time, with a bit less fortune for the lack of a uniformization theorem, the theory was developed in higher dimensions by Pfaltzgraff, Graham, Poreda and Kohr.

The aim of this talk is on the one hand to give an idea of the original Loewner theory and some of its applications and, on the other hand, to give a new dynamical interpretation and approach of the theory, as it was developed on abstract complex manifolds recently by the speakers with his collaborators, and to discuss some main open problems in the area.



[www.mathematik.uni-wuerzburg.de/kolloquium.html](http://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

