

# Einladung zum Mathematischen Kolloquium

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

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Mathematisches Institut der Universität Bonn

## On a mathematical model for aggregation phenomena

Mittwoch, den 18. Juli 2012 • 16:15 Uhr

Mathematik Ost (Emil-Fischer-Straße 40), Seminarraum SE40 (Raum 00.001)

### Inhaltsangabe

When studying aggregation one frequently models it by the so called Smoluchowski coagulation equation. It is a nonlocal integral equation that is used to model diverse aggregation phenomena such as polymerization, soot agglomeration or even the formation of stars. Inspired by its applications one wants to understand the outcome of the coagulation process after long times. It is conjectured that the asymptotic solution of our equations in cases of interest is given by a self similar profile which would be an easily understandable solution. In this lecture we shall present progress towards this goal.



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

Zu diesem Vortrag laden wir Sie herzlich ein.  
Kaffee und Tee wird unmittelbar nach dem Vortrag gereicht.

Die Dozentinnen und Dozenten der Mathematik

