



## SFB-Seminar im ZIB

### ZEIT:

15.4.2008, 16:00 Uhr - 19:00 Uhr

### ORT:

Konrad-Zuse-Zentrum für Informationstechnik Berlin (ZIB)  
Takustrasse 7  
14195 Berlin-Dahlem

### PROGRAMM:

16:00 - 17:00 **Brendan Guilfoyle (Tralee)**

#### **Mean Curvature Flow for higher-codimensional spacelike submanifolds**

In this talk we consider mean curvature flow for  $n$ -dimensional spacelike submanifolds of a manifold endowed with a metric of signature  $(n,m)$ . We establish long-time existence of the flow subject to mild curvature assumptions by proving a priori gradient estimates.

17:00 - 17:30 Kaffeepause

17:30 - 18:30 **Dr. Stefan Liebscher (FU Berlin)**

#### **Ancient dynamics in Bianchi models**

We consider cosmological models of Bianchi type. In particular, we are interested in the  $\epsilon$ -limit dynamics near the Kasner circle of equilibria. We discuss the existence of trajectories converging to a given sequence of heteroclinic orbits. This corresponds to special solutions to the Einstein equations in the big-bang singular limit.

### Kontakt:

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