



## **Simon Brendle**

# **1/4 pinched manifolds are space forms**

### **ZEIT:**

9.7.2007, 16:00 Uhr - 18:00 Uhr

### **ORT:**

Freie Universität Berlin - Fachbereich Mathematik und Informatik  
Arnimallee 6, 14195 Berlin-Dahlem (Raum 031)

We describe recent joint work with Richard Schoen on the Ricci flow in higher dimensions. We show that the notion of positive isotropic curvature (PIC) leads to new invariant curvature conditions for the Ricci flow. Using these ideas, we obtain a new convergence result for a class of manifolds that includes all manifolds with 1/4-pinched sectional curvatures.

### **Kontakt:**

Humboldt-Universität zu Berlin . Institut für Mathematik  
SFB 647 . Unter den Linden 6 . 10099 Berlin  
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727  
sfb647@math.hu-berlin.de

[www.raumzeitmaterie.de](http://www.raumzeitmaterie.de)