ALBERT-LUDWIGS-
UNIVERSITÄT FREIBURG

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN

Universität Zürich

SFB/ Transregio 71

Geometric Partial Differential Equations

November 10, 2009 Freiburg

Colloquium

14:00 **Guofang Wang**, University of Freiburg:
On 2-scalar curvature

Abstract: In this talk, we will first recall the definition of the k-scalar curvature and review the existence of the corresponding Yamabe type problem for this curvature. Then we discuss the analysis about the 2-scalar curvature and present a 3-dimensional sphere theorem as an application.

15:00 **Coffee break**

16:00 **Oliver Schnürer**, FU Berlin:
Gauß curvature flows of entire graphs

Abstract: We study entire graphs in Euclidean space that evolve with normal velocity equal to a power of the Gauß curvature. Mild restrictions on the initial data ensure that smooth solutions exist for all positive times. For initial data close to cones, we obtain stability results. This is joint work with John Urbas.

Venue: Lecture hall, Department of Medical Microbiology, Virology and Hygiene, Hermann-Herder-Str. 11, Freiburg