



Im  
Oberseminar Partielle Differentialgleichungen  
wird am  
Donnerstag, dem 1. Juli 2010,  
folgender Vortrag gehalten:

Dr. Miles Simon (Freiburg):  
*„Stability of metrics under Ricci flow“*

**Zeit:** 14:00 Uhr (!)

**Raum:** F 427 (!)

Interessenten sind herzlich willkommen!

R. Denk, H. Freistühler, O. Schnürer

**Abstract:** Let  $(M, h)$  be euclidean space or hyperbolic space, and let  $(M, g)$  be a Riemannian manifold which is close to  $(M, h)$ . We show:  $(M, g)$  lives forever when evolved by Ricci flow, and converges to  $(M, h)$  ( up to diffeomorphisms ) as time goes to infinity, as long as 'close' is appropriately defined. We also show: if we slightly (or moderately) change the definition of 'close', then this statement is incorrect.