

ESI

**The Erwin Schrödinger International
Institute for Mathematical Physics**

Boltzmannngasse 9
A-1090 Wien, Austria

**Workshop on
RENORMALIZATION GROUP FLOW and
RICCI FLOW**

October 22nd - October 25th, 2007

Organizers: G. Gentile, H. Grosse, G. Huisken, V. Mastropietro

Monday October 22nd, 2007

14:00 - 15:00 Robert Mc Cann, Toronto
Ricci flow, entropy, and optimal transportation

Coffee Break

15:30 – 16:30 Gerhard Huisken, Potsdam
Studying topology of manifolds by mean curvature flow and Ricci flow

Tuesday October 23rd, 2007

10:00 – 11:00 Christoph Kopper, Paris
Renormalization Theory based on the Renormalization Group Flow

Coffee Break

11:30 – 12:30 Mauro Carfora, Pavia
The Conjugate Linearized Ricci flow and its (nice) properties

Lunch Break

14:00 – 15:00 Robert Mc Cann, Toronto
Continuity, curvature, and the general covariance of optimal transportation

Coffee Break

15:30 – 16:30 Alexander Grigor'yan, Bielefeld
The dichotomy in the heat kernel off-diagonal behavior and the space/time scaling

16:45 – 17:45 Gerhard Huisken, Potsdam
Geometric Inequalities via mean curvature flow

Wednesday October 24th, 2007

10:00 – 11:00 Volker Schomerus, Hamburg
Boundary RG Flows and NC Gauge Theory

Coffee Break

11:30 – 12:30 Volker Schomerus, Hamburg
Boundary RG Flows and NC Gauge Theory

Lunch Break

14:00 – 15:00 Burkhard Wilking, Münster
New Ricci flow invariant curvature conditions in large dimensions

Coffee Break

15:30 – 16:30 Discussion

Thursday October 25th, 2007

to be announced

All lectures take place at the ESI Boltzmann Lecture Hall