

2006/2007 Symposium on Low Dimensional Geometry and Topology

Main Organiser: Caroline Series

Workshop on Geometric flows and related topics

Monday 26 to Friday 30 March 2007

Organiser: Peter Topping

PROGRAMME

Monday 26 March 2007 – Room MS.05 – LMS Spitalfields Day

- 10.00-10.30 Coffee in the Mathematics Institute Common Room (+conference registration)
 10.30-11.30 **Gerhard Huisken** (Max-Planck AEL, Golm) *Mean curvature type flows and isoperimetric inequalities*
 11.40-12.40 **Richard Schoen** (Stanford) *Recent progress on the high dimensional Yamabe problem*
 12.40-2.00 Lunch on campus
 2.00-3.00 **Bruce Kleiner** (Yale) *An overview of Perelman's work on geometrization*
 3.00-3.45 Tea/Coffee in the Mathematics Institute Common Room
 3.45-4.45 **William P. Minicozzi II** (Johns Hopkins) *Width and finite extinction of Ricci flow*
 4.45 Wine+snacks in the Mathematics Institute Common Room

Tuesday 27 March 2007 – Room B3.03

- 9.30 -10.30 **Andrea Malchiodi** (SISSA) *A Morse theoretical approach for a scalar field equation on compact surfaces*
 10.30-11.00 Coffee in the Mathematics Institute Common Room
 11.00-12.00 **Tristan Rivière** (ETH-Zürich) *Analysis aspects of Willmore surfaces*
 12.00-2.00 Lunch on campus
 2.00-3.00 **Felix Schulze** (FU Berlin) *Stability of Euclidean space under Ricci flow*
 3.00-3.30 Tea/Coffee in the Mathematics Institute Common Room
 3.30-5.30 **Bruce Kleiner** (Yale) (2 sessions) *Perelman's treatment of surgery*
 6.00 Buffet dinner in the Mathematics Institute Common Room

Wednesday 28 March 2007 – Room B3.03

- 9.30 -10.30 **Roger Moser** (Bath) *The inverse mean curvature flow and p -harmonic functions*
 10.30-11.00 Coffee in the Mathematics Institute Common Room
 11.00-12.00 **Brian White** (Stanford) *TBA*
 12.00-1.00 **Andre Neves** (Princeton) *Existence and uniqueness of foliations by cmc stable spheres on asymptotically hyperbolic manifolds*
 1.00 Lunch in the Mathematics Institute Common Room
 FREE AFTERNOON

Thursday 29 March 2007 – Room B3.03

- 9.30 -10.30 **Michael Struwe** (ETH-Zürich) *Partial regularity of harmonic maps, revisited*
 10.30-11.00 Coffee in the Mathematics Institute Common Room
 11.00-12.00 **Lei Ni** (UCSD) *Ricci solitons and conjectures of Yau and Hamilton*
 12.00-2.00 Lunch on campus
 2.00-3.00 **Dan Knopf** (UT Austin) *Local monotone functionals for geometric evolutions*
 3.00-3.30 Tea/Coffee in the Mathematics Institute Common Room
 3.30-4.30 **Natasa Sesum** (Columbia) *Asymptotic behaviour of the solutions to porous medium equations on \mathbb{R}^N*
 4.30-5.30 **Miles Simon** (Freiburg) *Ricci flow of almost non-negatively curved three manifolds*
 7.30 CONFERENCE DINNER at The Cross Restaurant in Kenilworth.

Friday 30 March 2007 – Room B3.03

- 9.30 -10.30 **Leon Simon** (Stanford) *TBA*
 10.30-11.00 Coffee in the Mathematics Institute Common Room
 11.00-12.00 **Ben Weinkove** (Harvard) *Geometric flows and moment maps*
 12.00-2.00 Lunch in the Mathematics Institute Common Room
 2.00-3.00 **Guofang Wei** (UCSB) *Manifolds with A Lower Bound on the Bakry-Emery Ricci Tensor*
 3.00-3.30 Tea/Coffee in the Mathematics Institute Common Room
 3.30-4.30 **Jim Isenberg** (Oregon) *Black Hole Rigidity*

If you have any questions during the Workshop please go to the MRC office B1.37 which is opposite the Common Room.