Institute for Geometry and its Applications
School of Mathematical Sciences
University of Adelaide

Workshop on New Currents in Geometry in Australia

16–18 November 2009

supported by the Australian Mathematical Sciences Institute

The workshop will be held on the University of Adelaide's North Terrace campus, in the Benham Lecture Theatre.

Monday 16 November

9:00–9:45: **David Baraglia**, Oxford University
Coassociative submanifolds: deformations and fibrations

Coffee

10:15–11:00: **James Borger**, Australian National University
Algebraic geometry to arithmetic geometry to absolute geometry

11:15–12:00: **Emma Carberry**, University of Sydney
Bubble, bubble, toil and trouble: constant mean curvature surfaces and quaternionic holomorphic geometry

Lunch

2:00–2:45: **Julie Clutterbuck**, Australian National University
Capillary surfaces for a compressible liquid

Coffee

3:15–4:00: **Ilya Kossovskiy**, Australian National University
Classification of homogeneous CR-manifolds in dimension 4

4:15–5:00: **Thomas Leistner**, University of Adelaide
Special holonomy in Lorentzian geometry

Tuesday 17 November

9:00–9:45: **Pengzi Miao**, Monash University
On critical metrics on compact manifolds with boundary

Coffee

10:15–11:00: **Peter Milley**, University of Melbourne
Mom-technology and small volume hyperbolic 3-manifolds

11:15–12:00: **Hao Yin**, University of Queensland
On stability of the hyperbolic space form under the normalized Ricci flow

Lunch

2:00–2:45: **Todd Oliynyk**, Monash University
The Newtonian limit of general relativity

Coffee

3:15–4:00: **Lawrence Reeves**, University of Melbourne
Genus for finitely presentable groups: compact 3-manifolds and link complements

4:15–5:00: **Adam Rennie**, Australian National University
Geometry of singular spaces

Wednesday 18 November

9:00–9:45: **Peter van der Kamp**, La Trobe University
From integrable lattice equations to integrable flows

Coffee

10:15–11:00: **Bryan Wang**, Australian National University
Geometric cycles and twisted index theory

11:15–12:00: **Craig Westerland**, University of Melbourne
The stable topology of Hurwitz spaces

Lunch

2:00–2:45: **Feng Xu**, Australian National University
Laplacian flow for G_2-structures

Coffee