

« Geometry and analysis of surface group representations »
Paris, January 3rd -March 30th, 2012

« Workshop on Immersed surfaces in 3-manifolds »
March 26th – 30th, 2012
Amphithéâtre Hermite

11 rue Pierre et Marie Curie – Paris 5^{ème}



Organizers

Danny Calegari (Cambridge), **Bill Goldman** (University of Maryland), **Vladimir Markovic** (Caltech), **Jean-Marc Schlenker** (Toulouse 3, IMT), **Alan Reid** (University of Texas)

Speakers

Ian Agol (UC Berkeley)
Nicolas Bergeron (Paris 6)
Martin Bridgeman (Boston College)
Jeff Brock (Brown)
Danny Calegari (Cambridge)
Will Cavendish (Princeton)
François Guéritaud (Lille)
Jeremy Kahn (Brown)
Sang-hyun (Sam) Kim (KAIST)
François Labourie (Orsay)
Tao Li (Boston College)
Brice Loustau (Orsay)
Jason Manning (Buffalo)
Jessica Purcell (Brigham Young)
Claire Renard (Toulouse)
Alden Walker (Caltech)

Program

Monday March 26th

- 09.00 am – 10.00 am *Registration and Welcome Coffee Break – Ground floor*
 10.00 am – 11.00 am **Ian Agol** The virtual Haken conjecture.
 11.00 am – 11.30 am *Coffee Break – Ground floor*
 11.30 am – 12.30 pm **Nicolas Bergeron** Cubulation of hyperbolic 3-manifolds.
 12.30 pm – 03.00 pm **Lunch**
 03.00 pm – 04.00 pm **Sang-hyun (Sam) Kim** Doubles of free groups and hyperbolic surface subgroups.
 04.00 pm – 04.30 pm *Coffee Break – Ground floor*
 04.30 pm – 05.30 pm **Claire Renard** Finite covers of a hyperbolic 3-manifold and virtual fibrations.

Tuesday March 27th

- 09.30 am – 10.00 am *Coffee Break – Ground floor*
 10.00 am – 11.00 am **Danny Calegari** Stable commutator length - statistics, concentration and compression.
 11.00 am – 11.30 am *Coffee Break – Ground floor*
 11.30 am – 12.30 pm **Martin Bridgeman** Pleated Surfaces, Convex Hulls and Domains.
 12.30 pm – 03.00 pm **Lunch**
 03.00 pm – 04.00 pm **Brice Loustau** Minimal surfaces in almost-Fuchsian manifolds and renormalized volume.
 04.00 pm – 04.30 pm *Coffee Break – Ground floor*
 04.30 pm – 05.30 pm **Jason Manning** Height, multiplicity, and Dehn filling.

06.00 pm – 09.00 pm Cocktail Dinner – Ground Floor of IHP

Wednesday March 28th

- 09.30 am – 10.00 am *Coffee Break – Ground floor*
 10.00 am – 11.00 am **Jeremy Kahn** Essential Immersed Surfaces in Closed Hyperbolic 3-Manifolds.
 11.00 am – 11.30 am *Coffee Break – Ground floor*
 11.30 am – 12.30 pm **Jessica Purcell** State surfaces in knot complements: fibers, guts, and the Jones polynomial.
 12.30 pm – 03.00 pm **Lunch**
 03.00 pm – 04.00 pm **Ian Agol** The virtual Haken conjecture.
 04.00 pm – 04.30 pm *Coffee Break – Ground floor*
 04.30 pm – 05.30 pm **Ian Agol** The virtual Haken conjecture.

Thursday March 29th

- 09.30 am – 10.00 am *Coffee Break – Ground floor*
 10.00 am – 11.00 am **François Labourie** Random complex projective structures.
 11.00 am – 11.30 am *Coffee Break – Ground floor*
 11.30 am – 12.30 pm **François Guéritaud** On Lorentzian spacetimes with constant curvature.
 12.30 pm – 03.00 pm **Lunch**
 03.00 pm – 04.00 pm **Tao Li** Rank and genus of 3-manifolds.
 04.00 pm – 04.30 pm *Coffee Break – Ground floor*
 04.30 pm – 05.30 pm **Will Cavendish** Towers of Covering Spaces of 3-manifolds and Mapping Solenoids.

Friday March 30th

- 09.30 am – 10.00 am *Coffee Break – Ground floor*
 10.00 am – 11.00 am **Jeff Brock** Fat, exhaustive integer homology 3-spheres.
 11.00 am – 11.30 am *Coffee Break – Ground floor*
 11.30 am – 12.30 pm **Alden Walker** Ziggurats and rotation numbers.