

GEAR Junior Retreat

University of Michigan at Ann Arbor, 23 May - 1 June 2014

http://www.math.umich.edu/~schapos/Junior_Retreat.html

Mini-Courses

- * Martin Bridgeman (Boston College) on Geodesic flows, convex Anosov representations and pressure metrics.
- * David Dumas (UIUC) on complex projective structures and their holonomy limits.
- * Sergei Gukov (CalTech) on Geometry and physics of Higgs bundles and branes.
- * Julien Marché (Jussieu) on Representation spaces, Chern-Simons theory, and TQFTs.
- * Yair Minsky (Yale) on Recent advances in Kleinian group theory.
- * John Parker (Durham) on complex hyperbolic geometry and quasi-Fuchsian groups.
- * Kim Ruane (Tufts) on Boundaries of CAT(0) spaces.
- * Richard Wentworth (Maryland) on The geometry of the moduli space of Higgs bundles.

Organizers

Dick Canary
Steve Kerckhoff
Michelle Lee
Ben Linowitz
Sara Maloni
Andy Sanders
Laura Schaposnik
Anna Wienhard

Senior Speakers

- * David Baraglia (Adelaide)
- * Subhojoy Gupta (Yale)
- * Sebastian Hensel (Chicago)
- * Sarah Koch (Michigan)
- * Johanna Mangahas (Brown)
- * Duc-Manh Nguyen (Université Bordeaux 1)
- * Anne Parreau (Institut Fourier)
- * Julien Paupert (Arizona State)
- * Florent Schaffhauser (UniAndes)
- * Christian Zickert (Maryland)

GEAR Executive Committee

Steven Bradlow
William Goldman
Steve Kerckhoff
Richard Wentworth
Anna Wienhard

GEAR is an NSF funded network of mathematicians working on Geometric structures And Representation varieties. The meeting is mainly aimed at PhD students and recent post-docs. There will be 8 mini-courses in the following themes:

1. Dynamics on Moduli Spaces
2. Geometric and Analytical Group Theory
3. Geometric Structures and Teichmüller Spaces
4. Higgs Bundles
5. Hyperbolic manifolds

Each mini-course will have an exercise session, as well as an open problems hour. Experts in the field shall present new developments in each area, and there will be short talks by young researchers. For more information about GEAR go to <http://gear.math.illinois.edu/>.

Registration and Funding

Funding will preferentially go to GEAR members and graduate students/postdocs at GEAR nodes; excess resources may be available for other participants. Applications received by February 1st are guaranteed full consideration, although applications will be accepted after this target date.



Graphic Design by Laura Schaposnik