

Schedule, Titles and Abstracts

Saturday, May 2

sign-in will take place in **127 Hayes-Healy Hall**
All talks take place in **117 Hayes-Healy Hall**.
Coffee and snacks will be available in **257 Hurley Hall** (the adjoining building, upstairs)

- 8 – 9 a.m. – Coffee & sign-in
- 9 – 10 a.m. – Adam Kanigowski
- 10 – 10:30 a.m. – Coffee Break
- 10:30 – 11:30 a.m. – Benjamin Call
- 11:30 – 1:30 p.m. – Lunch break
- 1:30 – 2:30 p.m. – Paul Apisa
- 2:30 – 3 p.m. – coffee break / poster session
- 3 – 4 p.m. – Yan Mary He
- 4:15 – 5:15 p.m. – Federico Rodriguez-Hertz
- 5:15 – 8:00 p.m. – Poster Session/Reception

Sunday, May 3

All talks take place in **117 Hayes-Healy Hall**.
Coffee, snacks and sign-in will be available outside **258 Hurley Hall** (the adjoining building, upstairs)

- 8:30 – 9 a.m. – Coffee
- 9 – 10 a.m. – Vitaly Bergelson
- 10 – 10:30 a.m. – Coffee break / posters
- 10:30 – 11:30 a.m. – Dong Chen
- 11:45 – 12:45 p.m. – Kevin Pilgrim

Abstract: We consider certain correspondences on a Riemann surface, and show that they admit a weak form of hyperbolicity: sufficiently long loops get shorter under lifting at a fixed point and closing. In terms of their algebraic encoding by bisets, this translates to contraction of fundamental group elements along sequences arising from iterated lifting.

As an application, we show that apart from the usual Lattès counterexamples, for any rational map on $\mathbf{P}^1$ with 4 post-critical points, there is a finite invariant collection of isotopy classes of curves into which every curve is attracted under iterated lifting.

Federico Rodriguez Hertz
Thermodynamic formalism and bounded cohomology

Abstract: In this talk I will discuss some relation between thermodynamics formalism and bounded cohomology. The goal is to show how quasi-morphisms on some groups relate to quasi-cocycles of certain dynamical systems. Then one can analyze the former using the latter. The latter can be related to functions with the Bowen property and in some cases shown to be trivial, giving another proof of a result of Burger and Monod. This is joint work with Pablo Carrasco

talks 

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Poster Presenters

Chase Bender	Beyond Algebraic Stability
Gabriela Brown	An infinite family of non-cyclic 1-cylinder pillowcase-tiled surfaces
Nick Freeman	Dynamics and Model Coordinates for Holomorphic Monomial-Type Maps
Inbo Gottlieb Fenves	Cusp Excursions, Lattice Points, and the Mizohata-Takeuchi Conjecture
Krishna Chaitanya Kalidindi	A complex dynamics approach to understanding birational maps of the plan arising from cluster algebra mutations
Thomas O'Hare	Finite Periodic Data Rigidity for Area-Preserving Two-Dimensional Anosov Diffeomorphisms
Alexander Paschal	Thermodynamic Formalism for Local Bowen Potentials on Topological Markov Shifts
Andres Quintero-Santander	“On the Holomorphic and Random Dynamics For some examples of higher rank Free Groups generated by Hénon-type maps”
Samantha Sandberg-Clark	A Non-Autonomous Model for Parabolic Implosion
Elizaveta Shuvaeva	Unique Ergodicity of Branched Double-Covers of Translation Surfaces
Lauren Weiss	Pattern Emergence in Planetary Systems
Ruocheng Yang	Affine Invariant Subvarieties in the Minimal Stratum of Genus Four