2022 Houston Workshop on Hyperbolic Dynamical Systems

Schedule for Thursday, May 19

All invited talks are in SEC 100

1:00 – 1:50
Keith Burns (Northwestern)
Measures of maximal entropy for the geodesic flows of surfaces with caps – part 1

2:00 – 2:50
Todd Fisher (Brigham Young)
Measures of maximal entropy for the geodesic flows of surfaces with caps – part 2

3:00 – 3:30

SEC 100	SEC 201	SEC 202-203
Coffee break	Review session	Graduate student exercises

3:40 – 4:30
Fan Yang (Michigan State)
Uniqueness of equilibrium states for Lorenz attractors in any dimension

2022 Houston Workshop on Hyperbolic Dynamical Systems

Schedule for Friday, May 20

All invited talks are in SEC 100

8:30 – 9:30	9:00 – 9:30	9:00 – 9:30
SEC 100	SEC 201	SEC 202-203
Coffee and light breakfast	Review session	Graduate student exercises

9:30 – 10:20
Alena Erchenko (Stony Brook)
Flexibility and rigidity questions for Cantor repellers

10:30 – 11:00, Parallel Session I

SEC 201	SEC 202
Spencer Durham (Brigham Young)	**Karen Butt** (Michigan)
Minimality for iterated function systems of circle diffeomorphisms	*Quantitative marked length spectrum rigidity*

11:00 – 11:30, Coffee break

11:30 – 12:20
Victoria Sadovskaya (Penn State)
Local rigidity for hyperbolic toral automorphisms

12:20 – 2:00, Lunch break

2:00 – 2:50
Kathryn Lindsey (Boston College)
Entropy and uniformly expanding models of 1D dynamical systems

3:00 – 3:30		
SEC 100	SEC 201	SEC 202-203
Coffee break	Review session	Graduate student exercises

3:40 – 4:30
Yan Mary He (Oklahoma)
Complex dynamics, big mapping class groups and Nielsen realization

2022 Houston Workshop on Hyperbolic Dynamical Systems

Schedule for Saturday, May 21

All invited talks are in SEC 100

8:30 – 9:30	9:00 – 9:30	9:00 – 9:30
SEC 100	SEC 201	SEC 202-203
Coffee and light breakfast	Review session	Graduate student exercises

9:30 – 10:20
Hongkun Zhang (Massachusetts-Amherst)
Hyperbolicity of chaotic billiards

10:30 – 11:00, Parallel Session II

SEC 201	SEC 202
Greg Hemenway (Houston)	**Mikey Chow** (Yale)
Equilibrium states for expanding skew products	*Local mixing of one-parameter diagonal flows on Anosov homogeneous spaces*

11:00 – 11:30, Coffee break

11:30 – 12:20
Pengfei Zhang (Oklahoma)
Heteroclinic and homoclinic intersections for lemon billiards

12:20 – 2:00, Lunch break

2:00 – 2:50
Mark Demers (Fairfield)
Thermodynamic formalism for finite horizon dispersing billiards

3:00 – 3:30		
SEC 100	SEC 201	SEC 202-203
Coffee break	Review session	Graduate student exercises

3:40 – 4:30
Agnieszka Zelerowicz (Maryland)
Lorentz gases on quasicrystals

2022 Houston Workshop on Hyperbolic Dynamical Systems

Schedule for Sunday, May 22

All invited talks are in SEC 100

8:30 – 9:30	9:00 – 9:30	9:00 – 9:30
SEC 100	SEC 201	SEC 202-203
Coffee and light breakfast	Review session	Graduate student exercises

9:30 – 10:20
Lien-Yung "Nyima" Kao (George Washington)
Pressure metrics on deformation spaces

10:30 – 11:00, Parallel Session III

SEC 201	SEC 202
Joondo Chang (Memphis)	**William Wood** (UC-Irvine)
Classical Hamiltonian dynamics and its applications to dynamical systems	*Uniform hyperbolicity and the periodic Anderson-Bernoulli model*

11:00 – 11:30, Coffee break

11:30 – 12:00, Parallel Session IV

SEC 201	SEC 202
Samuel Akingbade (Yeshiva)	**Grigorii Monakov** (UC-Irvine)
Energy growth in Hamiltonian systems with small dissipation	*Shadowing in linear skew products and large deviation estimates*

12:10 – 1:00
Matt Nicol (Houston)
Stable laws for random dynamical systems