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  Quantitative marked length spectrum rigidity
systems of circle diffeomorphisms

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*

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<td>SEC 202</td>
<td><em>Pressure metrics on deformation spaces</em></td>
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<td>10:30 – 11:00</td>
<td>SEC 201</td>
<td>Joondo Chang (Memphis) William Wood (UC-Irvine)</td>
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<td>SEC 202</td>
<td><em>Classical Hamiltonian dynamics and its applications to dynamical systems</em></td>
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<td><em>Uniform hyperbolicity and the periodic Anderson-Bernoulli model</em></td>
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<td>11:00 – 11:30</td>
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<td>11:30 – 12:00</td>
<td>SEC 201</td>
<td>Samuel Akingbade (Yeshiva) Grigori Monakov (UC-Irvine)</td>
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<td><em>Energy growth in Hamiltonian systems with small dissipation</em></td>
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<td>SEC 202</td>
<td><em>Shadowing in linear skew products and large deviation estimates</em></td>
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<td>12:10 – 1:00</td>
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<td>Matt Nicol (Houston)</td>
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<td><em>Stable laws for random dynamical systems</em></td>
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