

## 2019 Houston Summer School on Dynamical Systems – Schedule of lectures

Week 1 lectures in PGH 232; Week 2 lectures in AH 110

Week 1				
Tuesday May 28	Wednesday May 29	Thursday May 30	Friday May 31	Saturday Jun 01
9-9:30 Coffee		9-9:30 Coffee		
9:30-10:30	Preparatory review sessions for undergraduates in SEC 206	<b>Ergodic</b> <i>Haynes</i>	<b>Ergodic</b> <i>Haynes</i>	<b>Pesin theory</b> <i>Rodriguez Hertz</i>
10:30-10:45 Break				
10:45-11:45		<b>Hyperbolic</b> <i>Climenhaga</i>	<b>Pesin theory</b> <i>Rodriguez Hertz</i>	<b>Ergodic</b> <i>Furno</i>
11:45-1:15 Lunch				
1:15-2:15		<b>Pesin theory</b> <i>Rodriguez Hertz</i>	<b>Hyperbolic</b> <i>Climenhaga</i>	<b>Pesin theory</b> <i>Rodriguez Hertz</i>
2:15-2:30 Break				
2:30-4	Review sessions, group projects in CV 105, 106, 113, 115			

Week 2			
Monday Jun 03	Tuesday Jun 04	Wednesday Jun 05	Thursday Jun 06
9-9:30 Coffee			
9:30-10:30	<b>Statistical</b> <i>Nicol</i>	<b>Quantum</b> <i>Fillman</i>	<b>Bratteli</b> <i>Treviño</i>
10:30-10:45 Break			
10:45-11:45	<b>Quantum</b> <i>Fillman</i>	<b>Bratteli</b> <i>Treviño</i>	<b>Statistical</b> <i>Török</i>
11:45-1:15 Lunch			
1:15-2:15	<b>Bratteli</b> <i>Treviño</i>	<b>Statistical</b> <i>Nicol</i>	<b>Quantum</b> <i>Fillman</i>
2:15-2:30 Break			
2:30-4	Review sessions, group projects in SEC 201, 205, 206		

### Course and lecture abbreviations

<b>Ergodic</b>	Basics of ergodic theory	<i>Joanna Furno, Alan Haynes</i>
<b>Hyperbolic</b>	Uniformly hyperbolic systems	<i>Vaughn Climenhaga</i>
<b>Statistical</b>	Statistical properties in hyperbolic dynamics	<i>Matt Nicol, Will Ott, Andrew Török</i>
<b>Pesin theory</b>	Elements of Pesin theory	<i>Jana Rodriguez Hertz</i>
<b>Quantum</b>	Introduction to quantum walks	<i>Jake Fillman</i>
<b>Bratteli</b>	Bratteli diagrams, flat surfaces, hierarchical structure of minimal systems	<i>Rodrigo Treviño</i>