

## EMS - IAMP Summer School “Quantum Chaos”

July 30 - August 3, 2012

Organized by: N. Anantharaman, S. Nonnenmacher, Z. Rudnick, S. Zelditch

- **Monday, July 30, 2012**

**09:00 – 9:30:** Opening and Registration [Organizers/ESI Director]

**09:30 – 10:00:** Zeév Rudnick

*Introduction to Quantum Chaos*

**10:00 – 10:20:** coffee break

**10:20 – 11:10:** Stéphane Nonnenmacher

*Introduction to Dynamical systems I*

**11:20 – 12:10:** Stéphane Nonnenmacher

*Introduction to Dynamical systems II*

**12:10 – 14:30:** lunch break

**14:30 – 15:20:** Stéphane Nonnenmacher

*Semiclassical Analysis and Quantum Ergodicity I*

**15:30 – 16:20:** Stéphane Nonnenmacher

*Semiclassical Analysis and Quantum Ergodicity II*

**16:20 – 16:50:** break

**16:50 – 17:40:** Gabriel Rivière

*Introduction to Dynamical systems III*

- **Tuesday, July 31, 2012**

**09:30 – 10:20:** Jonathan Keating

*Random Matrix Theory and Quantum Chaos I*

**10:20 – 10:50:** coffee break

**10:50 – 11:40:** Jonathan Keating

*Random Matrix Theory and Quantum Chaos II*

**11:40 – 14:00:** lunch break

**14:00 – 14:50:** Gabriel Rivière

*Introduction to Dynamical systems IV*

**15:10 – 16:00:** Stéphane Nonnenmacher

*Semiclassical Analysis and Quantum Ergodicity III*

**16:00 – 16:30:** break

**16:30 – 17:20:** Manfred Einsiedler

*Arithmetic Quantum Unique Ergodicity I*

- **Wednesday, August 1, 2012**  
**09:30 – 10:20:** Manfred Einsiedler  
*Arithmetic Quantum Unique Ergodicity II*  
**10:20 – 10:50:** coffee break  
**10:50 – 11:40:** Steve Zelditch  
*Semiclassical Analysis and Quantum Ergodicity IV*  
**11:40 – 14:00:** lunch break  
**14:00 – 14:50:** Mikhail Sodin  
*Nodal portraits of random waves I*  
**15:10 – 16:00:** Mikhail Sodin  
*Nodal portraits of random waves I*

**16:15 – 17:15:** poster session

- **Thursday, August 2, 2012**  
**09:30 – 10:20:** Zeév Rudnick  
*Pseudo-integrable systems*  
**10:20 – 10:50:** coffee break  
**10:50 – 11:40:** Jens Marklof  
*Spectral correlations for integrable systems*  
**11:40 – 14:00:** lunch break  
**14:00 – 14:50:** Sebastian Müller  
*Spectral vs. periodic orbit correlations*  
**15:10 – 16:00:** John Toth  
*Eigenfunction restriction bounds*  
**16:00 – 16:30:** break  
**16:30 – 17:00:** Steve Zelditch  
*Ergodicity and nodal sets of eigenfunctions*

- **Friday, August 3, 2012**  
**09:30 – 10:20:** Gabriel Rivière  
*Entropic bounds for eigenfunctions*  
**10:20 – 10:50:** coffee break  
**10:50 – 11:40:** Stéphane Nonnenmacher  
*Quantum chaos with open systems*

**11:40:** Lunch – End of the school

**All lectures as well as the opening and registration take place in the ESI Boltzmann Lecture Hall**