

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:** Andrew Hassell*Semiclassical Analysis and Quantum Ergodicity I***15:30 – 16:20:** Andrew Hassell*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:** Andrew Hassell*Semiclassical Analysis and Quantum Ergodicity III***16:00 – 16:30:** break**16:30 – 17:20:** Manfred Einsiedler*Arithmetic Quantum Unique Ergodicity I***17:30 – 19:00:** Poster session

- **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:** Andrew Hassell
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
 - 16:00 – 16:30:** break
 - 16:30 – 17:20:** Andrew Hassell
Non-QUE for partially rectangular domains

- **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