

# Minisymposium on Billiards

All talks are in room CC012 James France Building. Each talk is 25 minutes (not including time for questions).

## Tuesday 10:30-12:30: Reflections

Jose Pedro Gaivao: Dynamics of pinball billiards

John Smilie: TBA

Gianluigi DelMagno: TBA

Arnd Bäcker: 3D Billiards: visualization of the 4D phase space and power-law trapping of chaotic trajectories

## Tuesday 15:30-17:30: Time-dependent billiards

Crt Lozej: Momentum diffusion in the stadium billiard

Julian Talbot: TBA

André Livorati: Investigation of Fermi acceleration in a bouncing ball system: Stickiness influence and transition from normal to super diffusion

Giulio Casati: Exponential localisation in right triangular billiards

## Wednesday 10:30-12:30: Waves/experiments

George Datseris: Applying Kac's Lemma into solid-state nanodevices through billiards

Andre Brandstötter: Coherent wave scattering in billiards: time-delay and beyond

Henning Schomerus: From copropagating modes to complex dispersion arcs in nonhermitian resonator arrays

Michał Ławniczak: Experimental investigation of short- and long-range spectral fluctuations in microwave networks and billiards

## Thursday 10:30-12:00: Hyperbolic billiards

Péter Bálint: Polynomial decay of correlations for billiard flows

Benoît Saussol: Spatio-temporal Poisson process for hitting times

Domokos Szász: Fourier law from Hamiltonian dynamics

## **Thursday 15:30-17:00: Transport I**

**Thomas Gilbert:** Nonlinear stability of the periodic orbits of four-dimensional symplectic billiard maps

**Leonid Bunimovich:** Physical versus mathematical billiards

**Carlos Mejia-Monasterio:** TBA

## **Friday 10:30-12:00: Transport II**

**Marco Lenci:** Global-local mixing for extended chaotic dynamical systems

**Chris Lutsko:** The Lorentz gas: going beyond the Boltzmann-Grad limit

**Françoise Pène:** Stochastic properties of the  $Z^2$ -periodic Sinai billiard