The Lorentz Gas

Mathematical billiards is the theory of particles bouncing off scatterers and estimating their diffusion rates and other stochastic properties.

Photo by Shubham Dhage. Poster design: Supernova Studios.

The Lorentz Center organizes international workshops for researchers in all scientific disciplines. Its aim is to create an atmosphere that fosters collaborative work, discussions and interactions.

For registration see: www.lorentzcenter.nl

19 - 23 December 2022, Leiden, the Netherlands

Scientific Organizers

• Luca Avena, Leiden University
• Frank den Hollander, Leiden University
• Ian Melbourne, University of Warwick
• Dalia Terhesiu, Leiden University

Topics

• Dynamical Billiards: Periodic and Random Lorentz Gases
• Ergodic Theory: Mixing and Hyperbolicity.
• Probability Theory: Random Motion in Disordered Media