Oberseminar Analysis und Theoretische Physik

Jun.-Prof. Dr. Tobias Weich

Universität Paderborn

Ruelle resonances on hyperbolic surfaces

Ruelle resonances have their origin in the study of chaotic dynamical systems. They were originally introduced by David Ruelle in the 70s to study the convergence to equilibrium. During the last years a new spectral theoretic approach to Ruelle resonances has been developed and thanks to these new techniques Ruelle resonances became an interesting object in spectral geometry and topology.

In a first part of this talk we introduce the notion of Ruelle resonances for dynamical systems and their implications for the decay of correlations. We will in particular focus on the modern spectral theoretical approach and explain how Ruelle resonances are related to poles of meromorphically continued resolvents. In the rest of the talk we will present recent results on the Ruelle spectrum on hyperbolic surfaces or more generally locally symmetric spaces.

Dienstag, 9.1.2018, 15:00 Uhr, Raum c311
Hauptgebäude der Leibniz Universität

Dazu laden herzlich ein:

Prof. Dr. Wolfram Bauer, Prof. Dr. Joachim Escher, Prof. Dr. Elmar Schrohe, Prof. Dr. Christoph Walker, Prof. Dr. Emil Wiedemann