

NYC Dynamics Seminar at CUNY & Yeshiva University

Yakov Pesin (The Pennsylvania State University)

will speak on

The essential coexistence phenomenon in dynamics

Wednesday, March 8th, 5:00pm

Lectures will last 1 hour and be followed by questions and/or discussion.

Yeshiva University, 215 Lexington Ave, Room 506

On the SW corner of Lexington Ave and 33rd Street. You will need to sign in.

Abstract:

I will discuss two different types of essential coexistence of regular (zero Lyapunov exponents and hence, zero entropy) dynamics and chaotic (non-zero Lyapunov exponents) dynamics in the setting of smooth dynamical systems, both with discrete and continuous time. I will review some recent results in this direction, discuss some open problems and describe a new example of coexistence which demonstrates a KAM-type picture in the volume preserving category.