

NYC Dynamics Seminar at CUNY & Yeshiva University

Liviana Palmisano (University of Bristol)

will speak on

On circle maps with a flat interval and Cherry flows

Wednesday, February 15th, 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:

Cherry flows are smooth flows on the bi-dimensional torus with two singularities. Having a rich behavior they have been attracting a lot of research attention over the years. The first return map is one of key tools in their studies. It is a C^2 weakly order preserving circle map with a flat interval. In my talk, I will survey recent developments in the comprehension of the dynamics generated by such maps. I will particularly focus on functions with unbounded rotation numbers. Following that, I will deduce metric, ergodic and topological properties of Cherry flows which led to resolution of some conjectures.
