## No semiconjugacy to a map of constant slope

## Michał Misiurewicz

Indiana University-Purdue University Indianapolis, USA mmisiure@math.iupui.edu

The talk is based on the joint work with Samuel Roth.

## Session: 16. Ergodic Theory and Dynamical Systems

We study countably piecewise continuous, piecewise monotone interval maps. We establish a necessary and sufficient criterion for the existence of a nondecreasing semiconjugacy to a map of constant slope in terms of the existence of an eigenvector of an operator acting on a space of measures. Then we give sufficient conditions under which this criterion is not satisfied. Finally, we give examples of maps not semiconjugate to a map of constant slope via a nondecreasing map. Our examples are continuous and transitive.