Qualitative Behaviour of Nonautonomous Discrete Dynamical Systems

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Keywords: discrete dynamical system; qualitative properties of nonautonomous systems.

As discrete dynamical systems have proved to be the ideal framework for describing some important models arising in natural sciences, computer science and electrical engineering, attentions are paid to nonautonomous discrete dynamical systems because they are used to model many interesting real-life phenomena including transport in ocean or air. Qualitative theory of nonautonomous systems becomes one of the most active areas of research in modern mathematics.

This session will be devoted to both the qualitative and quantitative study of nonautonomous discrete dynamical systems. In particular, we welcome talks devoted to stability, hyperbolicity, shadowing and linearization of nonautonomous and variational difference equations. In addition, we encourage talks devoted to statistical properties of nonautonomous discrete hyperbolic dynamical systems including decay of correlations, limit theorems and linear response.