

# **Fabrizio Bianchi**

*Université de Lille*

## **Dynamical stability and bifurcations from one to several complex variables**

We discuss the stability of holomorphic dynamical systems under perturbation. In dimension 1, the theory is now classical and is based on works by Lyubich, Mané-Sad-Sullivan, and DeMarco. I will review this theory and present a recent generalisation valid for families of endomorphisms in any dimension. Since classical 1-dimensional techniques no longer apply in higher dimensions, our approach is based on ergodic and pluripotential methods. I will list several open questions, as well as some partial results in these directions.

# **André de Carvalho**

*Universidade de São Paulo*

## **Structures on 1-, 2- and 3-dimensional spaces dynamical systems: an impressionistic overview**

We will discuss several instances of the “same” construction: some dynamical system with an exponentially growing feature leads to a geometric structure on the underlying space after passing to the limit with the appropriate normalization.