

Boundaries of multiply connected Fatou components. A unified approach

mardi 10 juin 2025 14:00 (50 minutes)

In this talk, we will focus on boundaries of multiply connected Fatou components, from a topological, measure-theoretical and dynamical point of view. The main tool in our analysis is the universal covering map (and its boundary extension), which allows us to relate the dynamics on the boundary with the dynamics of the radial extension of the so-called associated inner function. This way, we can deal with all Fatou components (invariant or wandering, with all possible internal dynamics) simultaneously. We will explore the similarities and the differences that appear for Fatou components of transcendental functions (both invariant and wandering) in contrast with rational maps.

This is joint work with G. R. Ferreira.

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