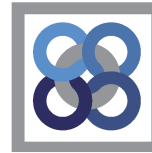


The logo for SIMBa, consisting of the text "SIMBa" in a bold, black, serif font, centered on a solid orange rectangular background.

BGSMath
BARCELONA GRADUATE
SCHOOL OF MATHEMATICS

Seminari Informal de Matemàtiques de Barcelona

Speaker: Tom Potthink.

University: Institut Mathématiques de Bordeaux.

Date: Wednesday, April 22nd, 2026.

Schedule: 12:20 talk.

Place: UB (Aula IA) and Zoom.

Language: English.

Title: An Approach to Complex Dynamics in Higher Dimensions: (Transcendental) Skew-Products.

Abstract: In complex dynamics, we try to understand the behavior of an iterated holomorphic function. One major goal is to study and classify the different domains of stable behavior, so called Fatou components. In comparison to one-dimensional dynamics, this remains an open problem in higher dimensions. Nevertheless, progress has been made in understanding the Fatou sets of special families of holomorphic functions. In this talk, I will give a brief introduction to one such family of holomorphic functions, namely skew-products, and the related notion of bulging Fatou components.

About us: *SIMBa* is a mathematics seminar organized by graduate students in the Barcelona area. It is aimed towards graduate and last-year undergraduate students. Our goals are disseminating knowledge from different branches of mathematics for those interested and promoting networking between the attendants.

This seminar is backed by the Faculty of Mathematics and Computer Science at Universitat de Barcelona, Faculty of Mathematics and Statistics at Universitat Politècnica de Catalunya, the Department of Mathematics at Universitat Autònoma de Barcelona, CRM, IMUB and BGSMath.

For more information, visit seminari-simba.github.io/en. You may contact us by sending an email to seminari.simba@gmail.com.