

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: Ignasi Sánchez Rodríguez.
University: Universitat de Barcelona.

Date: Wednesday, November 2nd, 2022.
Schedule: 13:00, *virtual coffee break*; 13:20, talk.
Place: UB (aula B1) and Zoom.
Language: English.

Title: Comparing Galois Representations

Abstract: The Langlands program is a web of conjectures according to which, in very broad terms, all Galois representations arising from geometry should be automorphic. In view of this, a natural question arises: given two Galois representations that should be isomorphic according to the Langlands program, can we show that they are actually isomorphic? In this talk we present the computable method for irreducible 2-dimensional 2-adic representations given by Jean-Pierre Serre based on the ideas of Gerd Faltings.

About us: *SIMBa* is a mathematics seminar organized by graduate students in the Barcelona area. It is aimed towards graduate and last course undergraduate students. Our goals are divulging the knowledge from different branches of mathematics for those interested and promote 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 from Univesitat Autònoma de Barcelona, CRM, IMUB and BGSMath.

Fore more information, visit at www.ub.edu/simba/en/.

If you have any doubt or comment do not hesitate to contact us by sending an email to seminari.simba@gmail.com.