Date: 06/02/2020

Speaker: Christian Rosendal

Title: How much choice is needed to construct a discontinuous homomorphism?

Abstract: The closed graph theorem states that a homomorphism between Polish groups whose graph is closed must also be continuous. I will present a recent generalisation of this result, which will allow one to address two seemingly unrelated issues, namely, the continuity of universally measurable homomorphisms and the amount of choice needed to construct a discontinuous homomorphism between Polish groups. This is related to the talk of the previous week by Jindra Zapletal.