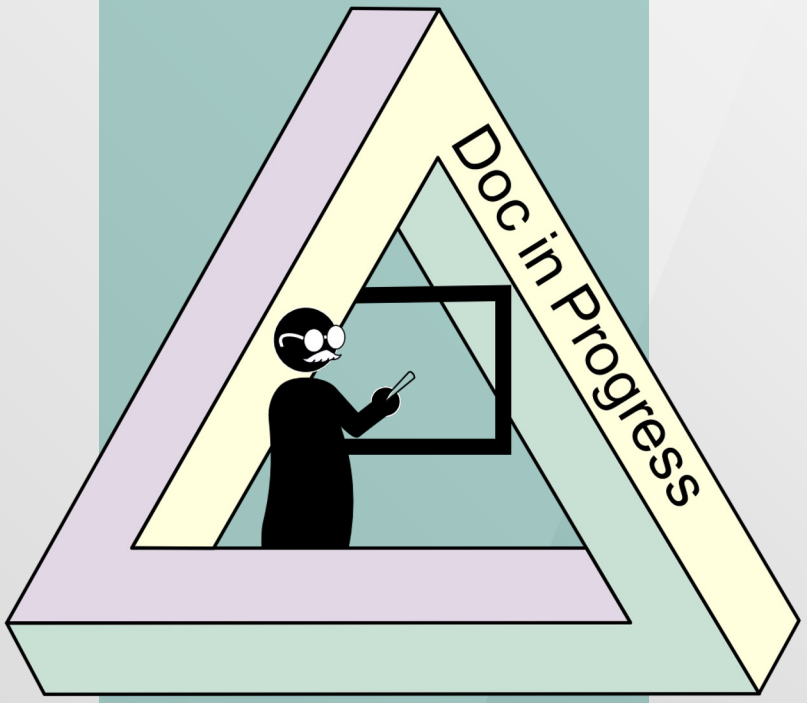
UNIVERSITÀ DI TRENTO
Dipartimento di Matematica



PhD in Mathematics

"Doc in Progress" is pleased to introduce you to

Alessandro Codenotti

University of Münster

PhD in Mathematics

An introduction to the Kechris-Pestov-Todorčević correspondence

A topological group G is said to be extremely amenable if it satisfies the strongest possible fixed point property: whenever G acts continuously on a compact topological space, there must be a fixed point. In this talk we will present an elementary proof, due to Pestov, of the extreme amenability of $Aut(\mathbb{Q}, \leq)$, the group of order preserving functions on the rationals. This is the simplest manifestation of a widespread phenomenon, now known as the Kechris-Pestov-Todorčević correspondence or KPT correspondence in short, which links together topological dynamics, Ramsey theory and the model theory of homogeneous structures.

Monday, October 17 – at 11:00 CET

The seminar will be held in room "Aula seminari di Fisica" (Department of Physics). if needed, please contact docinprogress.unitn@gmail.com using an institutional e-mail address to ask for a Zoom streaming of the event.