



UNIVERSITÀ
DI TRENTO

Dipartimento di
Matematica



PhD in Mathematics

“Doc in Progress” and #iorestoacasa are pleased
to introduce you to

Enrico Savi

University of Trento

PhD in Mathematics

Algebraic approximation techniques over \mathbb{Q}

The problem of approximating geometric objects by real algebraic ones has a very long story ranging from pioneering work on compact manifolds by J. Nash in 1952 up to its more recent developments. In this seminar I will give an overview on how the topological techniques, introduced during the above period, can be specified to approximate algebraic objects while simplifying their equations. Recent work by A. Parusinski and G. Rond allows to find algebraic approximations with equations over \mathbb{R}_{alg} , however, when trying to get equations over \mathbb{Q} , algebraic obstructions arise. By changing point of view from an algebraic to a topological one, we are able to find an algebraic approximation over \mathbb{Q} when the initial real algebraic set is either smooth or has isolated singularities.

This is a joint work (still in progress) with R. Ghiloni.



Wednesday, November 24 – at 16:00 CET

The seminar will be held both in presence in Seminar Room “-1” (Department of Mathematics) and online via Zoom.

To join the event, please contact docinprogress.unitn@gmail.com using an institutional e-mail address for both reserving a sit in the seminar room or obtaining login credentials.