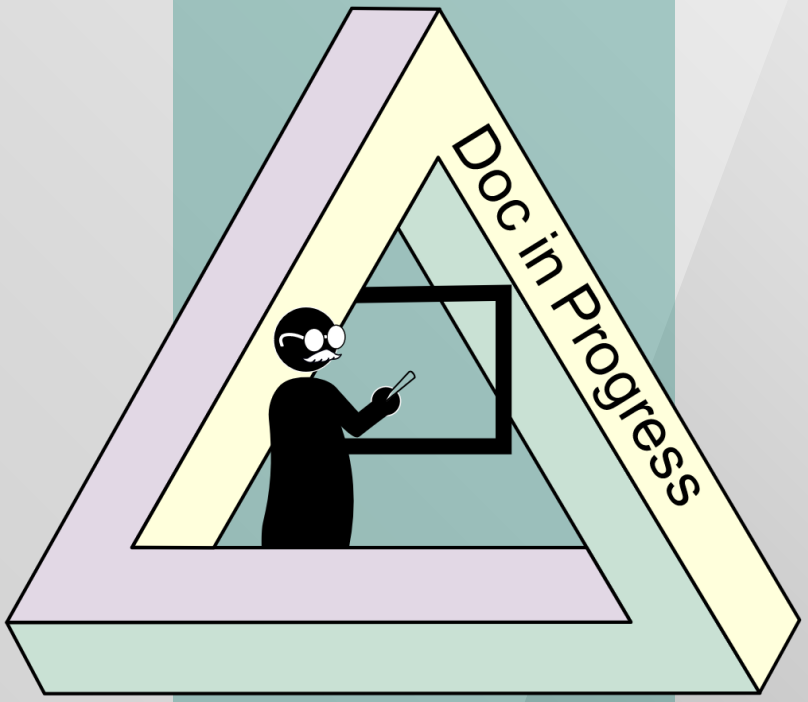
UNIVERSITÀ DI TRENTO
Dipartimento di Matematica



PhD in Mathematics

“Doc in Progress” is pleased to introduce you to

Enrico Savi

University of Trento

PhD in Mathematics

(Real) Algebraic Geometry over $\mathbb{Q}$

In this seminar I will present some notions of algebraic geometry over subfields introduced and studied in depth in a recent work by Fernando and Ghiloni. I will give an idea of why the most interesting cases to study are those in which the ground field is a real closed field, such as $\mathbb{R}$, and the subfield is not real closed, such as $\mathbb{Q}$. We will introduce several notions of real algebraic sets to be `described over $\mathbb{Q}$' and explain some characterizations via Galois theory proved by Fernando-Ghiloni and Ghiloni and the speaker. Time permitting, I will give an insight into which class of algebraic sets `described over $\mathbb{Q}$' is adequate for solving the $\mathbb{Q}$*-algebrization problem* by means of algebraic approximation techniques.

Thursday, April 20 – 16:00 CEST

The seminar will take place in room “Aula Seminari 1” (Department of Mathematics). If needed, please contact docinprogress.unitn@gmail.com using an institutional e-mail address to ask for a Zoom streaming of the event.

docinprogressunitn.wordpress.com