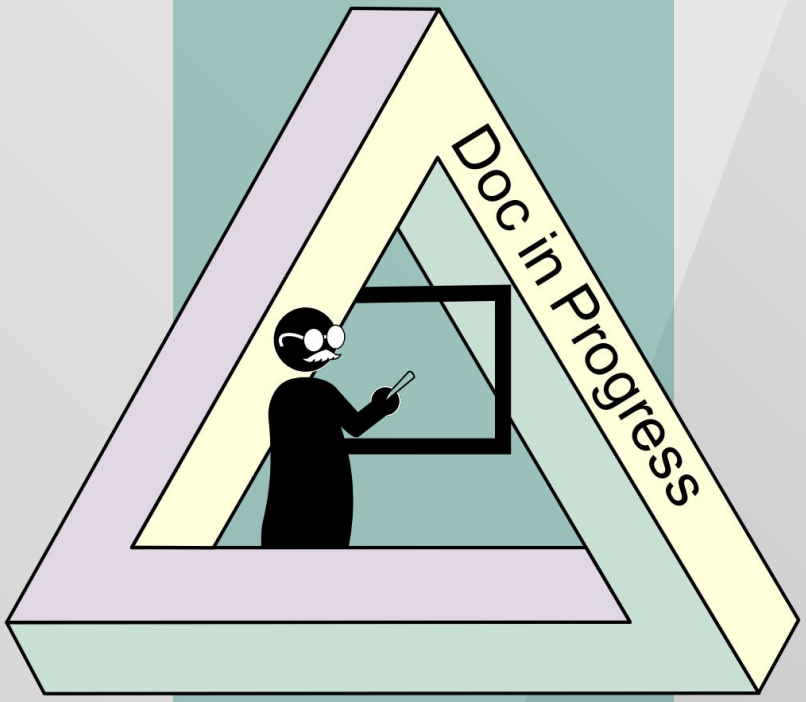
UNIVERSITÀ DI TRENTO
Dipartimento di Matematica



PhD in Mathematics

“Doc in Progress” is pleased to introduce you to

Lorenzo Barban

University of Trento

PhD in Mathematics

The relation between birational geometry and C*-actions

In this friendly talk we explain how birational transformations arise naturally in the context of C*-actions on projective varieties. With the help of examples, we first review basic notions about algebraic torus actions, explaining for instance the Bialynicki-Birula decomposition. We then concentrate on the geometric quotients of a C*-action, explaining how they are all birational to each other. We conclude by asking the opposite question: under which conditions two birationally equivalent varieties can be realized as geometric quotients by a C*-action?

Thursday, March 30 – 16:00 CET

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