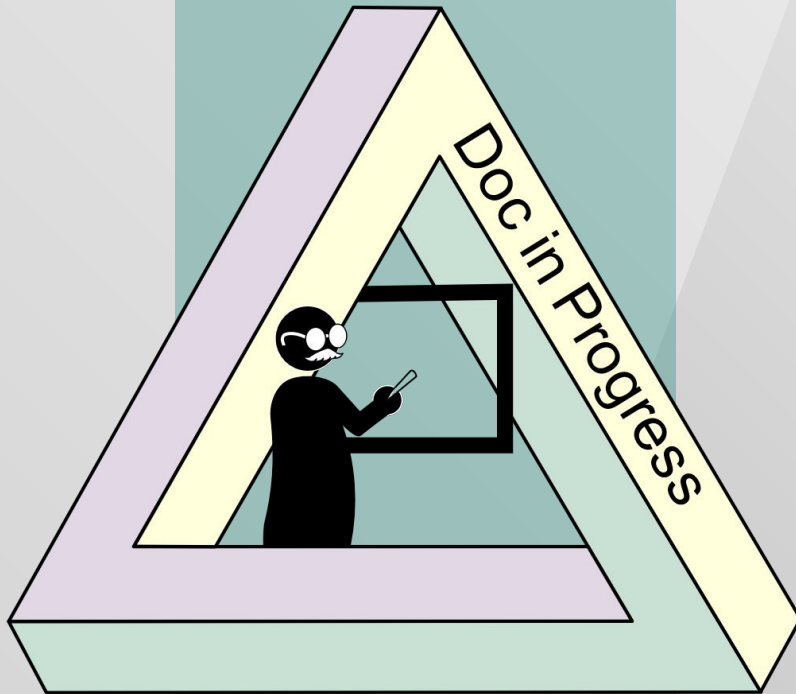




UNIVERSITÀ
DI TRENTO

Dipartimento di
Matematica



PhD in Mathematics

“Doc in Progress” is pleased to introduce you to

Miguel González

ICMAT

The \mathbb{C}^* -actions on the moduli space of Higgs bundles

\mathbb{C}^* -actions on complex algebraic varieties can be used to provide a better understanding of their topology and geometry. We will first showcase this in simple examples which are projective and hence limits at both directions (zero and infinity) always exist. Then we will introduce our main object of interest: moduli spaces of Higgs bundles. In this case the limit at infinity may not exist, motivating the definition of a “very stable” Higgs bundle. We will describe them in some cases after the recent work of Hausel and Hitchin, and Peón-Nieto. To conclude, we will announce work in progress joint with García-Prada and Hausel which classifies very stable G -Higgs bundles where the structure group G is an arbitrary complex semisimple Lie group.



Wednesday, November 13 – 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