

NUMBER THEORY seminar

HECKE TRANSFORMATIONS FOR MODULI SPACES OF PARABOLIC VECTOR BUNDLES

SPEAKER: David Alfaya Sánchez (ICMAT)

DATE & TIME: Tuesday, October 16, 2018 - 11:30

PLACE: Aula 420, Módulo 17, Departamento de Matemáticas, UAM
(Campus de Cantoblanco)

ORGANISER: UAM/ICMAT

ABSTRACT: The Hecke correspondence between moduli spaces of vector bundles have been used broadly as a tool for studying the geometry of these moduli spaces. We explore some relations between modular curves and moduli spaces of vector bundles over a curve and show that this Hecke correspondence can be understood as a geometric analogue of the Hecke correspondence between modular curves.

Then we describe how Hecke transformations can be extended to parabolic bundles and we prove that they can be used to construct nontrivial isomorphisms between moduli spaces of parabolic vector bundles. Joint work with Tomas Gómez.