

GEOMETRY Seminar HARMONIC SURFACES

SPEAKER: Nigel Hitchin (Universidad de Oxford)

DATE: Wednesday, 13th June 2018 - 11:30

PLACE: Aula Naranja, ICMAT, Campus de Cantoblanco

ABSTRACT: The Higgs bundle approach to flat connections involves an equivariant harmonic map from the universal cover of a Riemann surface to a symmetric space G/K. The talk will discuss the situation where G is the group of Hamiltonian diffeomorphisms of the cotangent bundle of the circle and K is the subgroup preserving the antisymplectic reflection in the zero section. It leads to the study of a particular class of Finsler surfaces. The main goal is to produce an infinite-dimensional analogue of Teichmueller space as a moduli space of geometric structures on the surface.











