Mathematics and CS Seminar

Tautological Hecke correspondence and K-theory of the moduli space of parabolic vector bundles

Olga Trapeznikova
Université de Genève

Host: Tamas Hausel

The Verlinde formula, an expression for the Hilbert function of the moduli spaces of vector bundles on Riemann surfaces, is one of the most beautiful results in enumerative geometry. In this talk, I will describe a generalisation of this result in the case of the moduli space of rank-2 parabolic bundles: a calculation of Euler characteristics of universal vector bundles. The result is motivated by the formula of Teleman and Woodward for the index of K-theory classes over the moduli stack of bundles on Riemann surfaces. The approach uses a wall-crossing technique and the tautological Hecke correspondence.

Thursday, April 7, 2022 01:00pm - 03:00pm
Heinzel Seminar Room (I21.EG.101), Office Building West

This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: https://ista.ac.at/en/campus/how-to-get-here/ The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.