

Algebraic Geometry Seminar

The unramified affine springer fiber and the nabla operator

Erik Carlsson (UC Davis)

Abstract: I'll present a new result with A. Mellit, which gives a combinatorial formula for a remarkable diagonalizing operator for the modified Macdonald polynomials, known as the nabla operator. This formula was discovered by finding a Schubert-type basis of a certain explicit module from Haiman's polygraph theory, which is conjecturally identified with the equivariant homology of the unramified affine Springer fiber studied by Goresky, Kottwitz, and Macpherson.

Monday, March 1 at 3:00 PM in Zoom