

Representation Theory, Geometry & Combinatorics Seminar

Organizer: M. Haiman and N. Reshetikhin

Wednesday, 4:00–6:00pm, 939 Evans

Oct. 28 **Andrei Negut**, Harvard

Laumon Spaces and the Calogero-Sutherland Integrable System

Our aim will be to present a proof of Braverman's conjecture concerning Laumon quasiflag spaces. We consider the generating function of the integrals of the equivariant Chern polynomial of the tangent bundles to the Laumon spaces. We will prove Braverman's conjecture, which states that this generating function coincides with the eigenfunction of the Calogero-Sutherland hamiltonian, up to a simple factor. This conjecture was inspired by the work of Nekrasov in the affine \widehat{sl}_n setting, where a similar conjecture is still open. Joint work with Andrei Okounkov.