

abstract

SPECIAL LECTURE

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

We will introduce certain operators $A(m)$ on the equivariant cohomology ring of the Laumon quasiflags spaces M_d . The character of $A(m)$ will be equal to the generating function $Z(m)$ of the integrals of the Chern polynomial of the tangent bundle of the spaces M_d . We will study certain factorizations of $A(m)$, and interpret these factorizations both geometrically and representation-theoretically. The representation theoretic interpretation will allow us to show that the character $Z(m)$ is (up to a constant monomial) the Jack polynomial, and thus very closely related to the universal eigenfunction of the quantum Calogero-Moser hamiltonian. Joint work with Andrei Okounkov.