Representation Theory, Geometry & Combinatorics Seminar

Organizer: Mark Haiman & Nicolai Reshetikhin

Wednesday, 4:00–6:00pm, 939 Evans

April 12   **Weiqiang Wang**, Virginia

A new class of double affine Hecke algebras

We will first review various aspects of the rational double affine Hecke algebra (DaHa), with an emphasis on the type A case which is associated with the symmetric group. (A good reference is the review paper by Rouquier, math.RT/0504600.) We will then introduce a new class of rational DaHa, associated to the spin cover of the symmetric groups, in two different versions. We will justify our definition by describing its connections with the affine Hecke-Clifford algebra, Dunkl operators, etc.