Mathematical Physics Seminar

Wed, 10/05/2022, 1:30pm, on Zoom

Speaker:

Huafeng Zhang, University of Lille (France)

Title:

Title: Associators for one dimensional representations of shifted quantum affine algebras

Abstract:

To a finite dimensional complex simple Lie algebra g one attaches the quantum affine algebra in two equivalent ways, the Drinfeld-Jimbo quantum group of the affine Lie algebra of g, and the Drinfeld affinization of the quantum group of g. Modifying the Drinfeld affinization procedure Finkelberg-Tsymbaliuk defined the shifted quantum affine algebras to study K-theoretical Coulomb branches.

In this talk I will explain a polynomliality property for the Drinfeld-Jimbo coproduct of the quantum affine algebra. For g of type A, this leads to nontrivial associator maps for triple tensor products of representations of shifted quantum affine algebras where the middle factor is one dimensional.

Zoom Link:available at https://www.math.purdue.edu/~ebkaufma/seminar.html