ALGEBRA SEMINAR

Representation theory of quantized quiver varieties

Ivan Loseu

Northeastern University

ABSTRACT: Nakajima quiver varieties are moduli spaces of certain representations of quivers. They play an important role in Algebraic Geometry, Mathematical Physics and Geometric Representation theory. Their quantizations are noncommutative associative algebras with interesting and rich representation theory conjecturally related to deep geometric properties of the underlying varieties. I'll explain some reasons to be interested in that representation theory and also some results in the important special case of quantized Gieseker moduli spaces based on http://arxiv.org/abs/1405.4998. All necessary information about quiver varieties and their quantizations will be introduced during the talk.

MONDAY, JANUARY 26, 2015
1:30 – 2:30 PM
ROOM 617, WACHMAN HALL
DEPARTMENT OF MATHEMATICS