Mathematical Physics Seminar, Ivan Karpov, MIT

Thursday, Feb 16th 2:30 – 3:30pm, SCHM 302

Please not unusual time and date

Title: Nonlinear SRA

Abstract: Let G be a finite subgroup of Sp(V) for V being a symplectic vector space.

A simplectic reflection algebra H(V, G, c) is, by definition, an unobstructed deformation of the smash product of G with the Weyl algebra W(V).

Etingof and Dolgushev (2005) have conjectured an existence of the similar deformation in the case of V being a general smooth affine symplectic variety.

We will prove their conjecture using the results of Losev, Bezrukavnikov-Kaledin, Namikawa, et al.; — and discuss the similar statement for V/G replaced by an arbitrary symplectic singularity. This is a joint work with P. Etingof and A. Vitanov.