***Семинар Лаборатории Алгебраической геометрии и ее приложений совместно с Лабораторией зеркальной симметрии и автоморфных форм***

Семинар состоится в пятницу 20 октября 2017 года**.**

**Начало в 17:00.**

Семинар будет проходить по адресу: **ул. Усачева, д.6, аудитория 306**

|  |  |
| --- | --- |
| На семинаре выступит Sergey Arkhipov (Aarhus University)  | C:\Users\vera\Desktop\ВЕРА\Лаборатория Богомолова\Конференции\Семинары\Фото\Архипол.JPG |

с докладом:

***Braid relations in the affine Hecke category and differential forms with logarithmic singularities***

**Abstract:** We recall the even and odd algebro-geometric realizations of the affine Hecke category - one via equivariant coherent sheaves on the Steinberg variety and the other in terms of some equivariant DG-modules over the DG-algebra of differential forms on a reductive group G.

The latter one has a toy analog called the coherent Hecke category. It contains certain canonical objects satisfying braid relations via convolution. The proof uses simple facts from the geometry of Bott-Samelson varieties.

Our goal is to provide a similar proof of braid relations in the affine Hecke category. It turns out that canonical braid group generators are given by certain DG-modules of logarithmic differential forms and braid relations follow immediately from a general statement which seems to be new: direct image of the DG-module of logarithmic differential forms does not depend on a resolution of
singularities.

***Приглашаются все желающие!***