

Семинар Лаборатории Алгебраической геометрии и ее приложений

Семинар состоится в пятницу 12 июля 2019 года.

Начало в 17:00.

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

На семинаре выступит **Лев**
Суханов

(HSE) с докладом:



Non-collapsible dual complexes and fake del Pezzo surfaces

Abstract: Consider a smooth 1-parameter family of surfaces, degenerating to a normal crossing. Relative MMP shows that if the general fiber of the family was rational, the dual complex of this degeneration is collapsible (brought to a point by applying repeatedly the removal of a simplex from the boundary). However, there is a lot of contractible but non-collapsible complexes. If one manages to smooth a degeneration with such a dual complex, it is supposed to provide interesting examples of surfaces with $h^{1,0} = h^{2,0} = 0$.

We show that this situation indeed occurs for the simplest example - the complex of the duncehat, obtaining the surface with topological invariants of the Barlow surface (yet unable to prove that it is in its deformation class).

Приглашаются все желающие!