

Семинар «Геометрические структуры на многообразиях»

Семинар состоится **14 марта 2019 года**

Семинар пройдет в аудитории **306, Усачева б. Начало в 18:30.**

Илья Думанский Cox rings and applications

Hu and Keel (2000) introduced a construction of a ring, called Cox ring of a normal algebraic variety, which is roughly speaking a direct sum of the spaces of sections of all isomorphism classes of line bundles. We will describe this construction, calculate this ring in several examples and discuss the Cox theorem (1995) about Cox rings of toric varieties. If we will have enough time, we will talk about some applications of Cox rings for calculation of the group $\text{Aut}(X)$ of automorphisms of an algebraic variety. Familiarity with the notion of a divisor class group would be useful for better understanding of the talk, but I will recall all the necessary definitions.