***Семинар Лаборатории Алгебраической геометрии и ее приложений***

Семинар состоится в пятницу 27 ЯНВАРЯ 2017 года**.**

**Начало в 17:00.**

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

|  |  |
| --- | --- |
| На семинаре выступит Миша Вербицкий | C:\Users\user\Desktop\ВЕРА\Фото\Вербицкий 2.jpg |

**(HSE and ULB)** с докладом:

***Algebraic and Kahler dimension of nilmanifolds***

**Abstract: Let M be a complex nilmanifold, that is, a quotient of a nilpotent Lie group with left-invariant complex structure by a cocompact lattice, and h the dimension  
of its space of holomorphic differentials. S. Salamon has shown that \dim M >= h > 0 for any nilmanifold, with equality realized if and only if M is a torus.**

**Algebraic dimension a(M) is transcendental dimension of the field of meromorphic functions on M. It is known that algebraic dimension is bounded from above by the usual dimension. I will show that a(M) is bounded by h (dimension of the space of holomorphic differentials)  
and explain when this bound is realised and how a(M) can be computed explicitly in terms of the Lie algebra. Also I would show that h bounds the Kahler dimension of  
M, that is, the maximal dimension of a compact Kahler manifold X such that there exists a dominant meromorphic map M -> Х, and explain when this bound is realized. This  
is a joint work with Gueo Grantcharov and Anna Fino**

***Приглашаются все желающие!***