

05 марта 2021 г (пятница)

в 17:00

по адресу: ул. Усачева, д.6, аудитория 306

На семинаре выступит



**Даниил
Руденко**
(The University
of Chicago)

с докладом:

Goncharov depth conjecture and volumes of orthoschemes

Goncharov conjectured that any multiple polylogarithm can be expressed via polylogarithms of depth at most half of the weight. In the first part of the talk I will explain how this conjecture fits into the general scheme of conjectures about mixed Tate motives. In the second part of the talk I will sketch the proof of the Goncharov conjecture. The proof is based on an explicit formula, involving a summation over trees that correspond to decompositions of a polygon into quadrangles. Surprisingly, almost the same formula gives a volume of a hyperbolic orthoscheme generalising the formula of Lobachevsky in dimension 3 to an arbitrary dimension.

Приглашаются все желающие!