

学术报告

Groups and geometry

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Time: 16:30-17:30, March 11 (Monday) 2019

Venue: Room 108, Center for Applied Mathematics

Abstract: The representations of the fundamental group of an algebraic variety form important topological invariants connecting group theory with geometry. In this talk, we focus on the varieties of smallest non-trivial dimension: curves. Using quivers and jet schemes, we show that the geometry of the space of representations has constrained singularities. We apply this to show that the number of irreducible complex representations of $SL_n(\mathbb{Z})$ of dimension at most m grows at most as the square of m , for a fixed $n > 2$.

欢迎大家参加！