



***FUDAN-SCMS ALGEBRAIC GEOMETRY SEMINAR
ZOOM MEETING SEMINAR***

***LECTURE 1:
WHAT DETERMINES A VARIETY?***

Speaker: János Kollár

Princeton Un.

Time: Thu, Apr. 30, Beijing Time 20:30-21:30

New York Time 8:30-9:30

Greenwich Mean Time: 12:30-13:30

***LECTURE 2:
K-STABILITY AND MODULI OF FANO VARIETIES***

Speaker: Chenyang Xu

MIT

Time: Thu, Apr. 30, Beijing Time 21:40-22:40

New York time 9:40-10:40

Greenwich Mean Time: 13:40-14:40

Zoom Meeting Id: 92976846244

Password: 200430

Link: <https://zoom.com.cn/j/92976846244>



LECTURE 1

Abstract: A scheme X is a topological space---which we denote by $|X|$ --- and a sheaf of rings on the open subsets of $|X|$. We study the following natural but seldom considered questions. How to read off properties of X from $|X|$? Does $|X|$ alone determine X ? Joint work with Max Lieblich, Martin Olsson, and Will Sawin.

LECTURE 2

Abstract: There has been tremendous progress of algebraic K-stability theory of Fano varieties in the recent years. One main topic is to use it to construct moduli spaces, called K-moduli. Several main ingredients have been established, based on the development within the K-stability theory as well as other parts of algebraic geometry e.g. MMP, stack theory etc. In this talk, we will sketch the people's progress of understanding K-stability and then discuss how they are used in the construction of the moduli space.