

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Hilbert quotients and Hilbert families of Grassmannians

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Date: January 29, 2024 (Monday)
Time: 10:30 - 12:00 noon
Venue: Rm 210, Run Run Shaw Bldg., HKU

Abstract

By Mnev's universality theorem, every singularity type naturally occurs in matroid strata of Grassmannians. This motivates to study the Hilbert quotients and Hilbert families of Grassmannians.

In this talk, we begin with a quick review of Mnev's universality, a gentle introduction of Hilbert quotient, then introduce the structures of the Hilbert quotients and Hilbert families of Grassmannians and explain their implications.

The talk is made accessible for the general audience with a background in algebraic geometry.

All are welcome