



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Symplectic Geometry of Hyperplane Arrangements

by

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Abstract

Complements of hyperplane arrangements are combinatorially well-behaved and geometrically the "simplest" type of affine varieties. It is also known to be closely related to the geometry of hypertoric varieties, a hyperKähler analogue of toric varieties, whose cohomological and categorical invariants provide important representation-theoretic and physical information. In this talk, I will introduce a symplectic approach toward understanding of "hypertoric category $\mathcal{O}$ " and its universal deformations. This is based on the joint work with Sukjoo Lee, Yin Li and Cheuk Yu Mak.

Date : 15 December 2025 (Monday)

Time : 4:00p.m.- 5:00p.m.

Venue : Room 1409 (Lift 25/26)

All are Welcome!