



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Alexandrov-Fenchel type inequalities in Kahler geometry

by

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Abstract

Khovanskii-Teissier inequality in complex geometry is a profound analog of Alexandrov-Fenchel inequality in convex geometry. In this talk, we shall present some new Khovanskii-Teissier type inequalities in mixed and degenerate settings, basing on developing new Hodge-Riemann bilinear relation on compact Kahler manifolds. Time permitting, characterization of the equality in the boundary case will also be mentioned.

Date : 13 April 2023 (Thursday)

Time : 4:00pm

Venue : Room 4472 (Lifts 25/26)

All are Welcome!