



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

MATHEMATICS COLLOQUIUM

**Pairwise intersecting convex sets
and cylinders in $\mathbb{R}^3$**

By

Prof. Imre Barany

Hungarian Academy of Sciences and University College London

Abstract

We prove that given a finite collection of cylinders in $\mathbb{R}^3$ with the property that any two of them intersect, there is a line intersecting an α -fraction of the cylinders where $\alpha=1/14$. This is a special case of a recent and interesting conjecture.

Date : 3 October 2025 (Friday)

Time : 3:00p.m.-4:00p.m.

Venue : Lecture Theatre F (near Lift 25/26)

All are Welcome!