

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

COLLOQUIUM

Pairwise Intersecting Convex Sets and Cylinders in \mathbb{R}^3

Professor Imre Bárány

Alfréd Rényi Institute of Mathematics

Hungarian Academy of Sciences

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:	September 4, 2024 (Wednesday)
Time:	4:30 – 5:30pm
Venue:	Room 210, Run Run Shaw Bldg., HKU

All are welcome