

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

## Seminar

# Digitalising mathematics with Lean

**Dr. Antoine Lefebvre de Saint-Germain**

Department of Mathematics

The University of Hong Kong

### **Abstract**

The last ten years have seen a rapid increase in the digitalisation of pure mathematics via interactive theorem provers (ITPs) such as Lean. In this colloquium, I will first demonstrate what it looks like to use an ITP, via examples. I will then describe what digitalisation can (or will be able to) do for mathematicians, students and industry. Finally, I will outline possible ways in which our department can become a part of this exciting "new" way of doing mathematics.

Date: May 17, 2024 (Friday)

Time: 12:00 noon - 1:00 pm

Venue: Room 210, Run Run Shaw Building, HKU

*All are welcome*