

#### THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

## **Department of Mathematics**

## **ALGEBRA AND GEOMETRY SEMINAR**

# Continuum envelopes on Fargues-Fontaine curve and elliptic curves

by

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### **Abstract**

In this talk, I will discuss some of the applications of Bridgeland stability conditions, which was originated from string theory, on Fargues-Fontaine curve. This leads us to the notion of continuum envelope on the curve and SL(2,Z) variants of Colmez-Fontaine's division algebra. Fargues-Fontaine curve presents strong similarity to elliptic curves and noncommutative tori in this perspective.

Date: 29 February 2024 (Thursday)

Time : 4:00pm - 5:30pm

**Venue: Room 4472 (Lifts 25/26)** 

All are Welcome!