

THE UNIVERSITY



OF HONG KONG

*Department of Mathematics*

## Colloquium

# Recent advances in the arithmetic Siegel-Weil formula

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### **Abstract**

In this talk, we will discuss recent advances in the arithmetic Siegel-Weil formula, a remarkable identity relating the intersection numbers of special cycles on Shimura varieties to the derivatives of certain Eisenstein series. We will also explain how representation theory inspires the underlying geometry and discuss various applications.

Date: January 15, 2026 (Thursday)

Time: 4:30 - 6:00 pm

Venue: Room 210, Run Run Shaw Bldg., HKU

*All are welcome*