

## **RECENT ADVANCES IN THE ARITHMETIC SIEGEL-WEIL FORMULA**

**Speaker: Qiao He**  
**Columbia University**

**Time: Mon, Jan. 5th, 11:00-12:00**

**Venue: Room 102, SCMS**

### **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.