



DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Colloquium

FALTINGS HEIGHTS AND ZARISKI DENSITY OF CM ABELIAN VARIETIES

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ABSTRACT

The moduli of CM abelian varieties are the simplest objects in the category of Shimura varieties, and have been intensively studied related to Hilbert's 12th problem and the BSD conjecture. In this talk, I will discuss some recent progress on two different kinds of problems:

1. Colmez' conjecture on Faltings' heights of CM abelian varieties in terms of Artin L -functions, and
2. André-Oort's conjecture on Zariski density of CM points on Shimura varieties.

Wednesday, 9 September 2015

4:00 pm

Smith Hall 204

Tea and refreshments will be served at 3:45pm.

<http://math.newark.rutgers.edu/~xiaowwan/Colloquium/>