

SCMS Seminar



P-ADIC GROSS-ZAGIER FORMULA FOR HILBERT

MODULAR FORMS

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Time: 3:30-4:30 pm., Thursday, August 20, 2015

Venue: Room 2201, East Main Guanghua Tower, Handan Campus

Title: P-adic Gross-Zagier Formula for Hilbert Modular Forms

Abstract: In this talk I will present my thesis work on the generalization of Perrin-Riou's p -adic Gross-Zagier formula. Let f be a p -ordinary Hilbert modular form over a totally real field F , and let E be a totally imaginary quadratic extension of F . We construct a p -adic L function, L_p , which interpolates special values of complex L functions associated to f and E , and show that the derivative of L_p is, up to a non-zero constant, equal to the p -adic height of a Heegner divisor on a Shimura curve over F .