



THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

POSTDOCTORAL/GRADUATE STUDENT
SEMINAR SERIES ON L-FUNCTIONS

SPEAKER:

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McMaster University
and The Fields Institute

On the Topic:

Torsion Algebraic Cycles for Varieties over Local Fields

For a smooth, projective variety X over a p -adic field k with good reduction, Raskind has shown that the prime to p part of the torsion subgroup of the second Chow group $CH^2(X)$ of codimension two cycles on X modulo rational equivalence is finite under certain conditions. We extend his result to the semi-stable reduction case and are able to show that, for X the product of certain elliptic or modular curves with semi-stable reduction over k , the prime to p part of $CH^2(X)_{tors}$ is finite. For X with good reduction, we will discuss the finiteness of p -primary torsion of $CH^2(X)$ if time permits.

Thursday, November 18, 1993

3:30 pm, Room 3018

at

The Fields Institute