



THE UNIVERSITY OF CHICAGO

Departments of Mathematics and Statistics
ALGEBRAIC GEOMETRY SEMINAR

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The Syntomic Regulator for K_4 of Curves

TUESDAY, October 30, 2012, from 4:30–6:00 PM

312 Eckhart Hall, 5734 S. University Avenue.

ABSTRACT

Let C be a curve defined over a discrete valuation field of characteristic zero where the residue field has positive characteristic. Assuming that C has good reduction over the residue field, we compute the syntomic regulator on a certain part of $K_4^{(3)}$ of the function field of C . The result can be expressed in terms of p -adic polylogarithms and Coleman integration, or by using a trilinear map (“triple index”) on certain functions.

Organizers:

For further information on this event, please email Lek-Heng Lim at lekheng@galton.uchicago.edu or Madhav Nori at nori@math.uchicago.edu.

UCAGS Seminar URL: <http://www.stat.uchicago.edu/~lekheng/ag.html>