



PURDUE UNIVERSITY

Department of Mathematics Colloquium

Speaker: Professor Luc Illusie, Paris and IAS

Title: "On Gabber's Finiteness Theorem in étale Cohomology"

Date: Tuesday, April 3, 2007

Time: 4:30 P.M.

Place: MATH 175

Abstract

Gabber has recently proven the constructibility of direct images of constructible sheaves of torsion prime to the characteristics by morphisms of finite type between excellent schemes. The main new ingredient in the proof is a deep local resolution theorem. I will start with a brief historical sketch, give an outline of the proof and discuss some by-products and related questions.

Refreshments will be served in the Math Library Lounge, 4:00 P.M.