

# TEMPLE UNIVERSITY MATHEMATICS COLLOQUIUM

**Fritz Grunewald**

University of Düsseldorf

will speak on

## **Engel conditions, a problem of Plotkin and étale cohomology**

ABSTRACT: The classical Engel-Theorems characterize finite-dimensional nilpotent Lie algebras or finite nilpotent groups by a system of two-variable identities. Plotkin asked whether the same is possible for solvable Lie algebras or solvable finite groups. I shall present a solution which involves the use of algebraic geometry over finite fields.

MONDAY, MARCH 13, 2006

LECTURE AT 4:00 PM (#)

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS