

TEMPLE UNIVERSITY MATHEMATICS COLLOQUIUM

Frauke Bleher

University of Iowa

will speak on

Group actions on homogeneous quotients of polynomial rings

ABSTRACT: This talk is about how a finite group G can act by linear ring automorphisms on a homogeneous quotient A of a polynomial ring over a field k . The main question in this area is whether as a module over the group algebra kG , A can always be written as a direct sum of copies of a finite number of kG -modules. I will describe what is known about this problem and present some new results proved with T. Chinburg using algebraic geometry.

MONDAY, OCTOBER 10, 2005

LECTURE AT 4:00 PM (#)

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM

ROOM 617, WACHMAN BUILDING
DEPARTMENT OF MATHEMATICS