

PITTSBURG STATE UNIVERSITY
DEPARTMENT OF MATHEMATICS

Colloquium

Dr. Cynthia Woodburn
with
Tim Pierce

Department of Mathematics, PSU

Special Cases of Factoring Polynomial Matrices

ABSTRACT

Suslin's Stability Theorem states that any 3×3 (or larger) square multivariate polynomial matrix (with coefficients from a field) will factor into a finite product of elementary matrices. H. Park and C. Woodburn provided an algorithmic proof of this result in 1994, although no implementation yet exists. Tim Pierce has recently developed an implementation in Maple of a sub algorithm of the Park-Woodburn algorithm which in some special cases is sufficient to produce a complete factorization.

Thursday, April 12, 2001
2:00 p.m.
Yates 215

Students are encouraged to attend.
There will be cookies and conversation afterwards in Yates 210