

2005

## 2005 Undergraduate Mathematics Day Poster

University of Dayton. Department of Mathematics

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# Undergraduate Mathematics Day at the University of Dayton

Saturday, November 5, 2005



Join us for an undergraduate mathematics conference with contributed talks and two invited addresses. There is no registration fee, and limited support for housing and travel is available.



Registration and information at <http://academic.udayton.edu/MathEvents/Fall05/>



We invite 15-minute talks, especially by undergraduate students, on mathematics research, the learning and teaching of mathematics, history of mathematics, and applications to disciplines related to mathematics.



Papers presented at the conference can be submitted for publication in our refereed online Conference Proceedings. Deadline for abstracts is Friday, October 28, 2005.

Photos from 2003 Undergraduate Mathematics Day

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- UD Bookstore
- SIAM
- Addison Wesley
- Key College Publishing
- McGraw-Hill
- Prentice Hall
- Thomson Brooks/Cole
- Wiley

## The Sixth Annual Schraut Memorial Lecture Gröbner Bases: A Natural Extension of Gaussian Reduction and the Euclidean Algorithm

**Patrick Flinn**

**National Security Agency**

Gröbner bases can be used to answer fundamental questions concerning certain sets of polynomials. For example, when are two such sets equal? Given such a set and another polynomial, is this polynomial a member of that set? In this introduction to Gröbner bases, we motivate their salient features by considering the Euclidean algorithm and Gaussian row reduction of matrices from a slightly different point of view.

## Shuffle Up and Deal; Should We Have Jokers Wild?

**Kristen Lampe**

**Carroll College, WI**

From the Interactive Media Lab at the University of Florida to the Poker News blog to the Christian Science Monitor, everyone is talking about the rise in poker's popularity. In neighborhood poker games, one often adds the jokers as wild cards. This talk will explore what happens mathematically when two jokers are added to the deck.