

California State University, Fresno  
Fall 2007 Mathematics Lecture Series

presents

**DORON ZEILBERGER**

Rutgers University

**“Mathematics: An Experimental Science Indeed”**

$$\sum_k \binom{n}{k}^2 \binom{3n+k}{2n} = \binom{3n}{n}^2$$

WHO YOU GONNA CALL?

Friday, October 19, 2007 from 4 to 5:00PM  
Alice Peters Auditorium (UBC)

A year ago, in this very same colloquium, my good friend and collaborator Herb Wilf gave a talk with almost the same title (without the last word). However, he was talking about Experimental Mathematics the way it is done today and in the next few years. I will talk on how it would be done in fifty years.

*Doron Zeilberger is a Professor of Mathematics at Rutgers University. He received his PhD from the Weizmann Institute of Science (Israel) in 1976. Professor Zeilberger has made important contributions to the fields of hypergeometric summation and q-Series. The so-called Wilf-Zeilberger pair and Zeilberger's algorithm are indispensable tools for summing hypergeometric series, and these techniques are used extensively in modern computer algebra software. He was also the first to prove the elusive result in combinatorial theory known as the alternating sign matrix conjecture, as well as a number of related propositions. Professor Zeilberger was a co-recipient of the 1998 Steele Prize of the American Mathematical Society for his research on hypergeometric summation and the recipient of the 2004 Euler Medal of the Institute of Combinatorics and its Applications.*

**For further information call (559) 278-4009 or e-mail [mfisher@csufresno.edu](mailto:mfisher@csufresno.edu)**