

Permutation Patterns 2005

University of Florida, March 7-11

Notes

- All talks except the keynote lecture by Doron Zeilberger are scheduled in 45 minute blocks. This allows 35 minutes for speaking, 5 minutes for questions, and 5 minutes for a break/changeover period.
- There is a problem session scheduled for Tuesday afternoon after the last talk. Bring your problems!
- There are three extra lectures during the week, at 4:00 p.m. on Monday, Wednesday and Thursday.

Monday March 7

- 10:00** Rebecca Smith
Permutation reconstruction
- 10:45** Herb Wilf
Pattern avoidance in compositions and multipermutations
- 12:00** **Reception** hosted by the College of Liberal Arts and Sciences to honor John Thompson and George Andrews.
- 2:00** Sergi Elizalde
Asymptotic enumeration of permutations avoiding generalized patterns
- 2:45** Einar Steingrímsson
Generalized permutation patterns

Tuesday March 8

- 10:00** Doron Zeilberger
Enumeration schemes for restricted permutations
- 11:15** Alex Burstein, Isaiah Lankham*
A geometric form for the extended patience sorting algorithm
- 12:00** **Lunch**
- 2:00** Ghassan Ferro*, Toufik Mansour
Restricted permutations and polygons
- 2:45** Toufik Mansour
Restricted 132-avoiding k -ary words, Chebyshev polynomials, and continued fractions
- 3:30** Alex Burstein*, Sergey Kitaev
Partially ordered generalized patterns and their combinatorial interpretations
- 4:15** **Problem session**

Wednesday March 9

- 10:00** Miklós Bóna
Parity and stack-sortability.
- 10:45** M.H. Albert, R.E.L. Aldred, M.D. Atkinson*, H.P. van Ditmarsch, C.C. Handley, D.A. Holton, D.J. McCaughan
Sorting classes
- 11:30** Sophie Huczynska, Vince Vatter*
Enumerative and structural applications of profile classes
- 12:15** **Lunch**
- 2:00** M.H. Albert*, N. Ruškuc, S. Linton
On the permutational power of token passing networks
- 2:45** Steve Waton
Token passing networks

Thursday March 10

- 10:00** Bruce Sagan*, Vince Vatter
The Möbius function of permutations ordered by pattern containment
- 10:45** Robert Brignall
Finite basis properties of wreath products
- 11:30** Sophie Huczynska*, Nik Ruškuc
Atomic classes: pattern classes indecomposable by union
- 12:15** **Lunch**
- 2:00** Nik Ruškuc
Decidability questions for pattern avoidance classes of permutations
- 2:45** Murray Elder
Pattern avoiding permutations are context-sensitive
- 6:30** **Conference Dinner**

Friday March 11

- 10:00** Dan Warren
Packing densities of more 2-block patterns.
- 10:45** Lauren Evans, Anant Godbole*, Carol Henley, Daphne Williams
The number of occurrences of patterns in a random permutation
- 11:30** Micah Coleman
An answer to a question by Wilf on packing distinct patterns in a permutation
- 3:00** **Excursion**