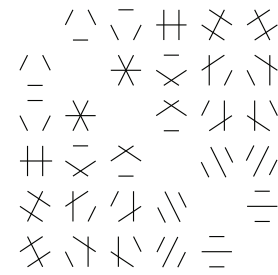


# Mathematics Seminar



## Rocky Mountain Algebraic Combinatorics Seminar

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### Permutation statistics everywhere, all at once

Angela Carnevale  
University of Galway, Ireland

Permutation statistics are combinatorial functions defined on permutations and their generalisations. I will talk about generalities of permutation statistics in the context of Coxeter groups and some surprising applications to Dirichlet series, matrix enumeration and Hadamard products of rational functions.

### Length and reflections: odds and ends

Angela Carnevale  
University of Galway, Ireland

It is well known that the Coxeter length can be described in terms of reflections. In this talk I will discuss interesting consequences of restricting our attention to special subsets of reflections. We will focus on so-called odd reflections and those of bounded length, discussing in particular some unexpected connections between the former and the Bruhat order, and new poset structures associated with the latter. This is based on joint projects with Francesco Brenti and Bridget Tenner, and with Matthew Dyer and Paolo Sentinelli, respectively.

Weber 223  
4–6 pm, Friday, April 21, 2023  
(Refreshments 3:30–4 pm)  
Colorado State University  
4 pm, Friday, April 21, 2023

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This is a joint Denver U / UC Boulder / U of Wyoming / CSU seminar that meets biweekly.  
Anyone interested is welcome to join us at a local restaurant for dinner after the talks.



Department of Mathematics  
Fort Collins, Colorado 80523