Classification of the T-avoiding permutations and generalizations to other Coxeter groups[*]

2011 AMS Spring Eastern Sectional Meeting
Combinatorics of Coxeter Groups Special Session
College of the Holy Cross, April 9–10, 2011

Joseph Cormier, Plymouth State University
Dana C. Ernst, Plymouth State University
Zachariah Goldenberg, Plymouth State University
Jessica Kelly, Plymouth State University
Christopher Malbon, Plymouth State University

Abstract: We say that a permutation w has property T if there exists i such that either $w(i) > w(i+1), w(i+2)$ or $w(i+2) < w(i), w(i+1)$. A permutation w is T-avoiding if neither w or w^{-1} have property T. In this talk, we will classify the T-avoiding permutations, as well as discuss possible generalizations to other Coxeter groups. Our result is a reformulation of previous results, but with a simpler proof.

This research is directed by Dr. Dana C. Ernst of Plymouth State University.

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[*]This abstract is different than the abstract that was originally submitted as the original contained an error.