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

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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.

^{*}This abstract is different than the abstract that was originally submitted as the original contained an error.