

Daryl Deford

Counting Rearrangements on Generalized Wheel Graphs,
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Abstract

In this paper we pose and answer a variety of combinatorial questions concerning cycle covers and matchings on graph structures. Particularly, we study wheel graphs and their natural extensions. These problems are motivated by a generalization of a seating rearrangement model explored by Kennedy and Cooper in the 1990's. We provide answers in terms of closed form expressions and demonstrate some interesting relationships between these counting problems and the Fibonacci numbers.