



The rising STAR of Texas

Discrete Mathematics Seminar

Time: Friday, October 5, 2018, 2:15-3:15 PM
Room: 330 Derrick Hall
Title: Parking On Directed Graphs
Speaker: Mr. Westin King, Ph.D. Student, Department of Mathematics, Texas A&M University

Abstract:

Parking functions were first defined in the 1960s in order to study collision resolution on hashing tables. Since then, they have appeared nearly ubiquitously throughout combinatorics and have several generalizations. I will present a new generalization which can be thought of as drivers with preferred parking spaces searching for an available parking spot (vertices) along a series of one-way streets (directed edges). I will discuss parking functions on several families of directed graphs, their surprisingly nice enumeration, and multiple further research directions for this generalization.