



The rising STAR of Texas

Discrete Mathematics Seminar

Time: Friday, April 15, 2022, 1:00-2:00 PM (Central Time)
Title: Noncrossing arc diagrams beyond type A and the shard intersection order
Speaker: Ashley Tharp, North Carolina State University
Zoom Link: <https://txstate.zoom.us/j/99924628868?pwd=czdJWVpWOHZIZE0vbHBQL1pWell6QT09>
ID: 999 2462 8868
Passcode: **753321**

Abstract:

Noncrossing arc diagrams are a visual representation of permutations. They naturally encode canonical join representations and contain complete information on lattice congruences and lattice quotients on the weak order of type A. This talk will provide an overview of the existing results on noncrossing arc diagrams for permutations and present analogous results (joint with Barnard and Reading) on noncrossing arc diagrams for signed permutations (type B) and even signed permutations (type D). These results lead to work in progress exploring sublattice relationships between shard intersection orders on different finite Coxeter groups.