Discrete Mathematics Seminar

Time: Friday, 24 October 2014, 2:00-3:00 PM
Room: 237 Derrick Hall
Title: Tournaments, score sequences and permutation matrix
Speaker: Dr. Yong Yang, Mathematics Department

Abstract:

Tournaments and score sequences have been studied extensively for over six decades due to their function as a modeling tool in a variety of fields, including bioinformatics, social choice theory, and ecology. Despite numerous attempts, however, they remain difficult to classify; even the number of score sequences is not known past a certain point.

In this joint project with high school students (Patrick Guo and Susan Xu), we study a conjecture of Bebeacua, Mansour, Postnikov and Severini, which takes the unique approach of analyzing score sequences by studying the X-rays of permutations.