

MATHEMATICS Honors Lecture

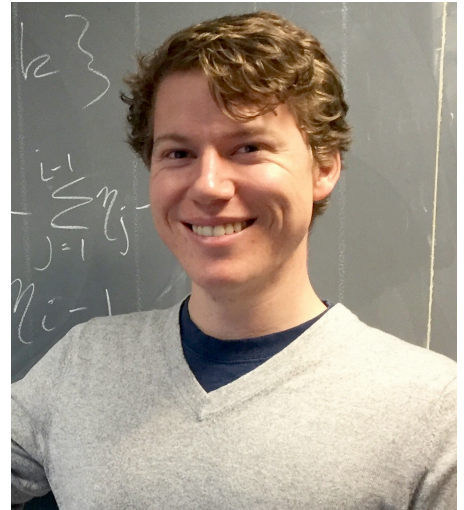
Bobby Dorward

Math & CS 2017

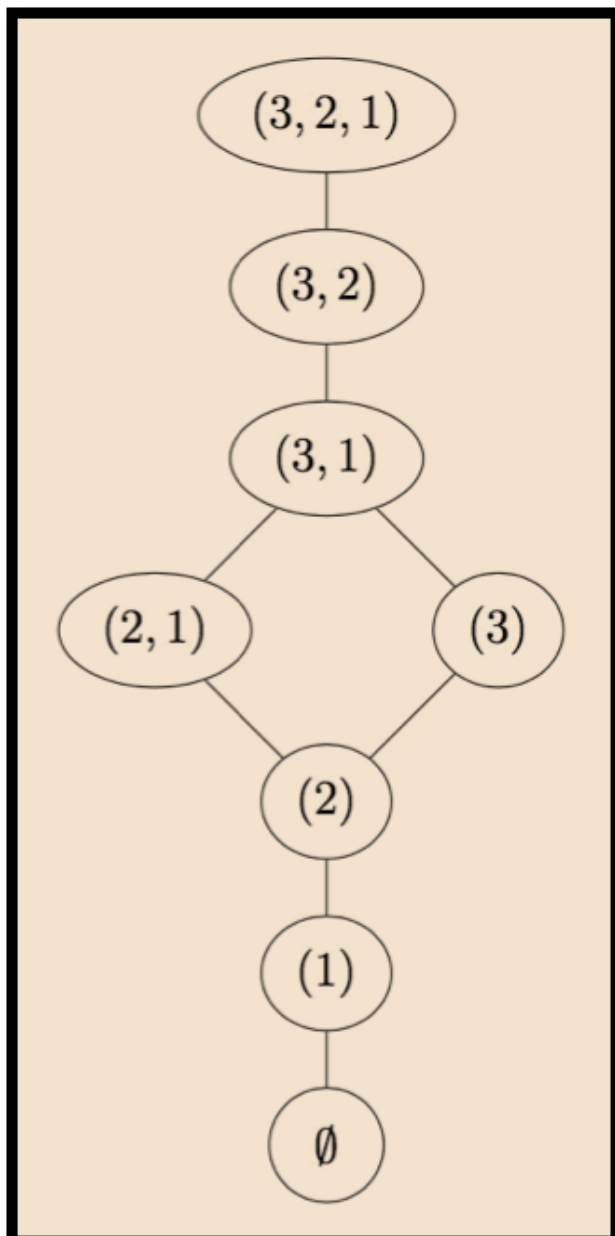
Tuesday, December 6, 2016

Reception, 4:00 pm, King 203

Lecture, 4:30 pm, King 239



Exact Pattern Containment in Restricted Growth Functions



In enumerative combinatorics, we seek to count the number of ways some mathematical structure can occur. One approach is to show that the object we wish to count is really another object in disguise -- one which we already know how to count. In doing so, we find connections between objects that superficially seem unrelated to one another.

In this talk, we will explore the world of Permutation Patterns, a subfield of combinatorics with roots in theoretical computer science, and see how we can use tools such as generating functions and statistic-preserving bijections to show that two combinatorial objects are really the same.