On Pattern Avoidance and Dynamical Algebraic Combinatorics

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Abstract

Over the past decade since the term 'dynamical algebraic combinatorics' was coined there has been a tremendous amount of activity in the field. In this talk we discuss work on an action of rowmotion on 321-avoiding permutations. Additionally, we will talk on the first known instance of piecewise-linear rowmotion periodicity for an infinite family of posets that does not follow from a more general birational result.