



Algebraic combinatorics and the q, t -Catalan numbers

Anna Vanden Wyngaerd

October 29, 2019 - 15:00

Abstract

This talk will consist of two parts. First I will tell the story of the famous Shuffle Theorem by way of an introduction to my field of research, which lies at the intersection of algebra (more specifically representation theory of the symmetric group), symmetric function theory and combinatorics. In the second part I will prove a result concerning a special case of the combinatorial side of the Shuffle conjecture, the q, t -Catalan numbers. This proof is very accessible and serves to give the audience an idea of the proof techniques used in this field.