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LOW 101

Eulerian polynomials and beyond

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The Eulerian polynomials, which were introduced by Euler over 200 years ago, are pervasive throughout discrete mathematics and arise in a variety of surprising ways. Over the years generalizations and q-analogs possessing fundamental properties of the Eulerian polynomials have been introduced. I will discuss some of these generalizations and describe intriguing connections with algebraic geometry, representation theory, symmetric functions and chromatic polynomials.

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