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Combinatorics of orthogonal polynomials: how to build Koornwinder polynomials at $q=t$ from moments of Askey Wilson polynomials

In this talk, I will use the classical combinatorial theory of Viennot for orthogonal polynomials and their moments. An extension of this theory allows to build multivariate orthogonal polynomials. The key step for this construction are a Cauchy identity for Koornwinder polynomials due to Mimachi and a Jacobi-Trudi formula for the 9th variation of Schur functions due to Nakagawa, Noumi, Shirakawa and Yamada. This is joint work with Olya Mandelshtam and Lauren Williams.

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