Wronskian Appell polynomials and symmetric functions

01.14 **Niels Bonneux**
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Time: Thursday 25.07., 16:00 - 16:30, Room AM

Abstract: We study Wronskians of Appell polynomials indexed by integer partitions. These families of polynomials appear in rational solutions of certain Painlevé equations and in the study of exceptional orthogonal polynomials. We determine their derivatives, their average and variance with respect to Plancherel measure, and introduce several recurrence relations. Our proofs all exploit strong connections with the theory of symmetric functions.