École
« Combinatoire équivariante »
12 au 16 juin 2017

School
"Equivariant Combinatorics"
June 12-16, 2017

# Algebraic Combinatorics and Representations of Cherednik Algebras

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This short course will provide an introduction to some of the interaction between Cherednik algebras and algebraic combinatorics. A number of rings of interest in algebraic combinatorics and mathematical physics arise as irreducible representations of Cherednik algebras. The most significant examples are the diagonal coinvariant ring (and suitable versions of it for other complex reflection groups), the Garsia–Haiman modules arising in the study of Macdonald polynomials, and the Verlinde algebras.

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