

Differences of Products of Schur Functions

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Time: Sep 19th, 14:00 - 15:00

Venue: Room 106, SCMS

Abstract:

Schur functions are ubiquitous in algebraic combinatorics and representation theory. Many combinatorial problems are reduced to study the Schur positivity of differences of products of Schur functions. A seminal work was done by Lam, Postnikov and Pylyavskyy, who proved several conjectures within this field. This talk is devoted to discussing some applications of their work as well as some results and problems related to the log-concavity of Schur polynomials. Part of this talk is based on the joint work with Alice Gao, Ethan Li, Matthew Xie and Zhong-Xue Zhang.