

MATHEMATICS DEPARTMENT
North Carolina State University

ALGEBRA SEMINAR

Friday, November 2, 2007

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North Carolina State University

Wreath product Schur functions

ABSTRACT: I will present a combinatorial construction of wreath product Schur symmetric functions using colored Young tableaux (joint work with Ingram and Stitzinger). Wreath product Schur functions were introduced by Specht and later redeveloped by Macdonald to express irreducible characters of the wreath product $G \sim S_n$ of a finite group G and the symmetric group S_n . Wreath products have close connections with Lie theory, for example, the orthogonal or symplectic Weyl groups are special examples of them. In the talk I will give the generalized Littlewood–Richardson rule and many other generalizations of known results for the symmetric group.

3:00 - 3:50 pm HA 335

Faculty and Students are invited to attend.