Kronecker Product of Schur Functions of Two-Part Partitions

Laura M. Brill
Advisor: Rosa Orellana
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Abstract

The main aim of this thesis is to correct certain omissions in Remmel & Whitehead's paper "On the Kronecker Product of Schur Functions of Two Row Shapes"[1]. We begin with a discussion of the basic representation theory and combinatorics necessary to understand and define Schur functions and the Kronecker product. We then give a brief summary of Remmel & Whitehead's argument, ending with a presentation of the corrected theorem for the Kronecker product of Schur functions indexed by partitions of at most two parts.

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[1] Remmel, Jeffrey B.; Whitehead, Tamsen. On the Kronecker product of Schur functions of two row shapes. Bull. Belg. Math. Soc. Simon Stevin 1 (1994), no. 5, 649–683.